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Lake Water Quality Assessment: Inventory of Lakes in the Susquehanna River Basin in Pennsylvania
and
Water Quality Characteristics of Eleven Publicly-Owned Lakes

Publication No. 177 *December 1996*

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LAKE WATER QUALITY ASSESSMENT: INVENTORY OF LAKES IN THE SUSQUEHANNA RIVER BASIN IN PENNSYLVANIA
AND
WATER QUALITY CHARACTERISTICS OF ELEVEN PUBLICLY-OWNED LAKES

Publication No. 177 *December 1996*

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This report is prepared in cooperation with Pennsylvania Department of Environmental Protection. Bureau of Land and Water Conservation's Clean Lakes Program under grant CL-993030-01-1 and 2.

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LAKE WATER QUALITY ASSESSMENT: INVENTORY OF LAKES IN THE SUSQUEHANNA RIVER BASIN IN PENNSYLVANIA

AND

WATER QUALITY CHARACTERISTICS OF ELEVEN PUBLICLY-OWNED LAKES

Paula B. Ballaron
Scott W. Bollinger
Darryl L. Sitlinger

ABSTRACT

An inventory of lakes in the Susquehanna River Basin in Pennsylvania identified 135 publicly-owned lakes that are potentially significant under the Commonwealth of Pennsylvania's definition. About 70 lakes have reported detention times greater than 14 days. Detention times for the rest are unknown.

Field personnel surveyed each potentially significant lake during 1994 and 1995 to document physical features of the lake, public accessibility, lake use, and near shore land use. Potential pollution problems and sources also were assessed.

During the inventory process, records for over 1,000 additional water bodies were reviewed. About 675 of these had reported detention times of less than 14 days or allowed no public access. About 185 water bodies were excluded from the list of potentially significant lakes for other reasons, including location being unknown or outside of the Susquehanna River Basin, and the water body not being a lake (a marsh, a farm pond, a dam that has been breached or never supported an impoundment). Many duplicate entries for lakes and other water bodies also were eliminated.

Water quality characteristics are reported for eleven lakes previously described by the Pennsylvania Department of Environmental Resources (Ulanoski and others, 1981). Ten lakes were sampled three times during the period April through September 1995. Each lake is described with a map, a list of physical and morphological features, a brief discussion of water quality, temperature, dissolved oxygen, pH and specific conductance profiles, and tabulated basic data. The basic data include chemical analyses for common constituents, trace metals, and chlorophyll *a*. Similar recent data for Harveys Lake (Coastal Environmental Services, Inc., 1994) also are reported.

The mean Trophic State Index values increased at all eleven lakes since the 1981 survey. The most significant increases occurred at Lake Carey, C.F. Walker Lake, Parker Dam, and Speedwell Forge Lake.

INTRODUCTION

Pennsylvania's lake information is contained in a number of databases. These databases have listings for about 9,000 lakes, ponds, and impoundments throughout the Commonwealth. The Pennsylvania Department of Environmental Resources (Pa. DER), now the Pennsylvania Department of Environmental Protection (Pa. DEP), listed only 156 lakes as significant in the 1994 Water Quality Assessment 305(b) report (Frey, 1994). An additional 583 lakes have been identified as potentially significant, being either publicly- or privately-owned with unknown public access.

The Pa. DEP currently bases its Lake Water Quality Assessment report under Section 305(b) on information retrieved from the Bureau of Water Quality Management (Water Quality Network Data Base) and the Bureau of Water Supply and Community Health (Reservoir and Natural Lakes Data Base). Other agencies that maintain their own lake and reservoir databases include the U.S. Army Corps of Engineers (COE) and the Pennsylvania Fish and Boat Commission (PFBC).

Pa. DEP, Bureau of Land and Water Conservation (BLWC) recognizes the need to access and screen all of the existing databases to identify all important lakes in the Commonwealth for future 305(b) reports and 303(d) lists. Pennsylvania's lake information also needs to be updated to evaluate and prioritize current and future projects funded under the Section 314 Clean Lakes Program and the Section 319 Nonpoint Source Program.

Purpose and Scope

This project was designed to expand and update the Pa. DEP's database for lakes and lake water quality in the Susquehanna River Basin. This information will enable the Pa. DEP to enhance the lake water quality section of the 305(b) Water Quality Assessment and help evaluate and prioritize projects funded under the Section 314 Clean Lakes Program.

More than one-third of the Commonwealth is in the Susquehanna River Basin, and the procedures developed and tested in this project will provide a template for future studies to identify all of the important lakes in the remainder of Pennsylvania.

The project began on October 1, 1993, and was projected to run through September 30, 1995, but was extended until March 31, 1996.

Approach

The Susquehanna River Basin Commission (SRBC) inventoried and assessed lakes in the Susquehanna River Basin by reviewing published reports and by screening existing databases. The U.S. Geological Survey (USGS) topographic maps (1:24,000 scale) showing the Pennsylvania part of the Susquehanna River Basin also were reviewed to identify any additional lakes not in the databases. During the course of the project, field personnel visited most of the lakes identified as having public access.

SRBC contracted with the Towson State University (Md.) to characterize lakes and lake watersheds using a PC-based Geographic Information System (GIS). The GIS was used to calculate lake surface area and shoreline length, digitized as part of this project from USGS topographic maps; to calculate watershed areas, using digital data for drainage basins of named streams in Pennsylvania (U.S.

Geological Survey, 1995); and to evaluate land use in the watershed, using the Environmental Monitoring and Assessment Program (EMAP) data set.

An important aspect of this project was to sample and report on water quality for those lakes in the Susquehanna River Basin previously considered in the report, "Trophic Classification of Twenty-Six Publicly Owned Pennsylvania Lakes" (Ulanoski and others, 1981). Lakes reported on are: Canoe Creek Lake, Blair County; Lake Carey, Wyoming County; C.F. Walker Lake, Snyder County; Ford Lake, Lackawanna County; Harveys Lake, Luzerne County; Hills Creek Lake, Tioga County; Lackawanna Lake, Lackawanna County; Parker Dam, Clearfield County; Shawnee Lake, Bedford County; Speedwell Forge Lake, Lancaster County; and Lake Winola, Wyoming County. Harveys Lake in Luzerne County was not sampled during this project, as it has recently been the subject of detailed Phase I assessment through the US EPA Clean Lakes Program. Information reported here is from that study (Coastal Environmental Services Inc., 1994).

The water quality monitoring program included the following objectives:

- To revisit and sample lakes in the Susquehanna River Basin studied by Pa. DER in 1980.
- To update physical-chemical data for these lakes and to evaluate any changes in water quality since the time of the previous survey. Data collected will be used to evaluate trophic conditions and water quality trends in the lakes.
- To establish a sound database for government and the public for the protection and restoration of lake quality so as to provide maximum uses and benefits to the public.

DESCRIPTION OF THE STUDY AREA

Physiographic Provinces

Five major physiographic provinces have been identified in the Susquehanna River Basin in Pennsylvania: the Appalachian Plateau; Ridge and Valley; Blue Ridge; New England (Reading Prong Section only); and the Piedmont.

Land Use

The US EPA's EMAP data set was obtained for analysis of land use. This data set provides data for nine land use categories: forest; agriculture; four urban classifications; water; exposed land; and wetland. Although the data set was used primarily for characterization of individual lake watersheds, it also is useful to look at land use from a basinwide perspective.

Approximately 63 percent of the basin in Pennsylvania is forested (Table 1). The majority of the forested (woody) areas are in the northern and western parts of the basin. Agricultural (herbaceous) areas comprise about 31 percent of the land in the basin, with the majority located in the valleys running generally southwest to northeast and in the lower Susquehanna River Basin. Only about 3 percent of the basin is considered urban (high- and low-intensity urban). The most urbanized areas in the basin are located in the lower basin (Harrisburg, York, and Lancaster) and in the northeast (the Scranton and Wilkes-Barre corridor). Water bodies, including lakes, major rivers and their hundreds of tributaries, occupy about 11 percent of the basin.

Table 1. Percentage Area of Land Use for the Chesapeake Bay Basin and the Commonwealth of Pennsylvania (From the EMAP Data)

Land Use Classification	Percent of Bay Basin	Percent of Pennsylvania
Woody (forest)	53.8	62.5
Herbaceous (agriculture)	30.6	31.1
High Intensity Urban (urban)	0.6	0.3
Low Intensity Urban (urban)	4.0	2.9
Woody Urban (urban)	1.1	0.6
Herbaceous Urban (urban)	1.6	0.8
Water	7.2	11.1
Exposed	0.3	0.7
Herbaceous Wetland	0.8	0

Lake Distribution

Most lakes in the Susquehanna River Basin occur north of the limit of glaciation, and many of these are natural lakes, thousands of years old. In the northern tier counties of Tioga, Bradford, and Susquehanna alone, 220 lakes were identified. Basins of natural lakes may have been sculpted by glaciers or may be the result of ice disintegration features. Many of these natural lakes are small, and tend to be ovoid or circular in shape with regular shorelines. They also commonly have diffuse sources of inflowing water, relatively low watershed areas compared to lake surface area, and long hydraulic residence times.

South of the glacial limit, man-made impoundments have been constructed for agricultural use, municipal and industrial water supply, power generation, flood control, soil and water conservation, and recreation. The purpose of the impoundment determines its location and size, and the topography of the inundated valley dictates the basin shape. Although a large number of dams have been constructed in the central and lower Susquehanna basin, many do not support impoundments or the pool is not large enough to be called a lake or reservoir.

With regard to factors that control water quality and biological productivity, reservoirs occupy an intermediate position in the continuum between rivers and lakes. The different types of reservoirs—mainstem-run-of-the-river, mainstem storage, and tributary storage impoundments—may share similarities with natural lakes. Water residence time and the degree of riverine influence are the primary factors determining which of the impoundments should be considered in an inventory of lakes.

LAKE INVENTORY

Inventory Methodology

A comprehensive inventory of significant lakes and reservoirs is not currently maintained by the Pa. DEP. The publication, Dams, Reservoirs, and Natural Lakes (Pa. Dept. of Forests and Waters, 1970), indicates that there were more than 2,300 reservoirs and 76 natural lakes in Pennsylvania at that time, but provides little information for establishing significance under the currently accepted definition (see next section). More recently developed Pa. DEP databases are useful in locating and classifying dams as to physical and functional features, but may not address significance or be updated frequently enough to contain current information.

Therefore, the initial goal of this study was to develop an accurate list of significant lakes in the Susquehanna River Basin, and then to collect the available basic data about these lakes. In practice, investigators compiled a database of all known lakes and reservoirs (including their location data, morphological characteristics, and cultural information) from multiple sources. This list was reduced to all potentially significant lakes and reservoirs. Duplicates were eliminated whenever possible, and lakes known to be significant were identified. Investigators then attempted to determine the significance of the remainder of the lakes.

Determining significance

Pennsylvania defines a "significant" lake as: "A publicly-owned lake with a detention time of greater than 14 days" (Frey, 1992). Detention time is important for pollution control and restoration of lakes. A detention time of 14 days is based on the outcome of the National Eutrophication Survey (US EPA Working Paper 725) sponsored by US EPA in the early 1970s (Frey, 1996). The survey showed a high linear correlation between mean total phosphorus and mean chlorophyll *a* levels, and thus indicates a probability that phosphorus reduction would be effective in reducing primary production in lakes with a detention time of 14 days or greater. Pa. DER selected this threshold for the definition as a management tool to target lakes where management plans are likely to produce the desirable changes in water quality.

Detention time is calculated as a function of Storage Volume and Drainage Area using the formula:

Detention Time (days) = Storage Volume/(0.969 * Drainage Area)

where: Storage Volume = Millions of Gallons
Drainage Area = Square Miles.

Pa. DEP calculates detention times for lakes with sufficient data, and furnished this information for about half of the lakes and reservoirs in its database for the Susquehanna basin. Other agencies did not provide this information, which complicated this project. Furthermore, the PFBC (Hoopes, 1989) calculates retention time for lakes surveyed using the formula:

Retention Time (days) = Lake Volume/Average Daily Flow

where: Lake Volume = Cubic Meters
Average Daily Flow = Cubic Meters Per Day

Where watershed area was known, SRBC staff calculated detention times for the PFBC data.

It was not possible to calculate detention time for most lakes in the basin. Data concerning the size of the drainage areas above the reservoir and the storage volume of the reservoir were not available, and the detailed surveys required to gather these data were beyond the scope of the project. Therefore, investigators concentrated on the first part of the definition—determining which lakes in the basin are publicly-owned or have significant public access, and therefore are potentially significant.

Determining if a lake is publicly-owned

Pennsylvania's usage of the term "publicly-owned" in its definition of a significant lake is consistent with the US EPA definition, which is: "A fresh water lake that offers public access to the lake through publicly-owned contiguous land, or by some other means, so that any person has the same opportunity to enjoy non-consumptive privileges and benefits of the lake as any other person. If user fees are charged for public use and access through state or sub-state operated facilities, the fees must be used for maintaining the public access and recreational facilities of the lake or other publicly-owned fresh water lakes in the state, or for improving the quality of these lakes."

After identifying the lakes in state parks, those owned by the PFBC and the Game Commission, and those developed by the COE, determining public accessibility was somewhat problematic because of the US EPA definition. Where access is through publicly-owned contiguous land such as a state game land or community park, the lake is generally well-known by local agencies as public. However, county planners and other residents are not necessarily acquainted with those lakes where access is through "some other means."

Additionally, what activities comprise access? Swimming and boating? Fishing? Picnicking on the shore? The minimum standard for access was clarified by Pa. DEP staff to be where direct benefits of the lake can be realized by the public. For example, lakes where shore fishing is permitted can be publicly-accessed, whereas lakes that only allow picnicking or hiking along the shore cannot.

To determine "public ownership," SRBC staff contacted conservation district offices and planning agencies by mail, and followed up with telephone calls. Staff visited many county conservation district offices to consult on particular lakes. Staff also contacted many private lake and reservoir owners to determine whether any public access is available.

For many lakes, however, assigning this designation became an important part of the site visit. At the lake, investigators looked for signs that invited access or areas posted "no trespassing." They also considered whether access roads were gated and/or locked, and looked for pull-offs along public roads, picnic tables and trash cans, and evidence of fishing activities. Staff questioned any people using the lake, as well as local residents. When the lake owner could be identified, investigators attempted to contact the owner by telephone to confirm their impressions and obtain additional information about the lake.

Only lakes presumed to be publicly accessible are shown in the final list, with the source for the designation provided. Some designations remain problematic, especially those based on anecdotal information or on observations. For example, at some lakes, a private landowner apparently allows local residents to fish, but provides no other public facilities. Is fishing really permitted, or are the persons trespassing? Are fishing privileges equally extended to any person, local resident or stranger?

An additional problem arises when considering privately-owned lakes, that being the permanence of a designation of publicly accessible. Permission to use other privately-owned lakes might be revoked by an owner at any time. During site visits, investigators found that owners of several lakes had recently posted no trespassing signs as they became aware of their potential liability. The opposite might also occur, where an owner could choose to allow use of a lake previously kept private. If property is sold and lake ownership changes, a new owner might institute new policies concerning public accessibility (as may occur with the lakes owned by Pennsylvania Gas and Water).

Data set development

This section describes how project data were developed, and includes references to digital data sources and intermediate data files that are available on diskette. The final list of 135 potentially significant, publicly-owned lakes in the Susquehanna River Basin is shown in Table 2 (in alphabetical order) and Table 3 (listed by county). Appendix A shows a listing of all lakes deleted during the screening process. Lake names, morphological characteristics, and location data were obtained from the various databases, or obtained from USGS topographic maps, other existing maps, or construction descriptions.

SRBC staff reviewed a number of published reports (listed in Table 4), and acquired portions of existing computer databases from the US EPA, the Pa. DEP, and the PFBC.

The computerized data sets were evaluated as a starting point. US EPA's Total Waters database (US EPA.XLS) contains 2,312 entries of water bodies in the Susquehanna River Basin in New York and Pennsylvania. The data are based on remote sensing, and only show water body identification number, location by latitude/longitude, name, and surface area. Only 20 of these entries include a water body name. Because of the limited fields of data, this source was not useful for the lake inventory. A retrieval provided to SRBC from Pa. DEP's reservoir and natural lakes database (DERDAMS.XLS) contains 1,020 entries and has detailed data on dams, as well as their impoundments. The PFBC provided data on 98 lakes in the Susquehanna River Basin (FBCLAKE.XLS).

Water bodies identified by Pa. DEP and PFBC in the Susquehanna River Basin were compiled and sorted by latitude (LAKESORT.XLS). All available data columns, and all duplicate entries were retained. A column to identify the data source, either DDB (for Pa. DEP's database) or FBC (for PFBC's database) was added. Bodies of water that could be identified as something other than lakes (treatment ponds, mine pools, etc.) were removed, and the remaining rows were assigned numbers from 1 to 895.

Each of the 425 USGS topographic maps showing the Pennsylvania part of the Susquehanna River Basin also was reviewed to identify additional lakes. If the lake was not on LAKESORT.XLS, the lake, its location by latitude/longitude, and quadrangle sheet name were compiled in a separate list. Lakes on this list were assigned project identification numbers 896 to 1080.

A file called LAKELIST.XLS was created from selected columns from LAKESORT.XLS and lakes identified from the topographic maps. Columns were added to record comments, calculate detention time, and designate significance, public access, and the source for this determination. Obvious duplicate entries for lakes were moved to a separate area of the spreadsheet.

At this point, the published reports previously listed and an unpublished list of lakes compiled by Pa. DEP, Bureau of Water Quality Management (BWQM) were reviewed and compared with LAKELIST.XLS. The hard copy list from BWQM contains statewide data, and is compiled by region/county. It reports the names of lakes with known access and lakes with unknown access. Locations of lakes that were not on LAKESLIST.XLS were checked, and those within the Susquehanna basin were added to the file, designated DHL for the data source, and numbered from 1081 to 1140.

Table 2. *Final List (Alphabetical) of Potentially Significant, Publicly-Owned Lakes in the Susquehanna River Basin*

Source	Lake or Reservoir Number and Name	County	Latitude	Longitude	USGS Quad	Lake Area (acres)	Public Access Source	Detention Time (days)
SRBC	927 Ackleys Pond	Bradford	41-41-05	76-22-36	Monroeton	62.3	SRBC	
SRBC	934 Balsam Pond	Bradford	41-53-03	76-32-56	Sayre	34.1	SRBC	
FBC	734 Bear Wallow Pond	Sullivan	41-30-33	76-44-39	Shunk	23.5	SRBC	
DDB	809 Beechwood Lake (Pa.-454)	Tioga	41-51-06	77-30-48	Sabinsville	79.2	SRBC	>14
DHL	1130 Black Pond (a.k.a. Blacks Lake)	Bradford	41-49-06	76-25-42	Towanda	22.1	DHL	>14
FBC	134 Boy Scout Dam	Centre	40-45-47	77-36-13	Spring Mills	2.0	SRBC	
FBC	843 Lake Carey	Wyoming	41-35-18	75-55-30	Tunkhannock	258.0	DHL	>14
SRBC	930 Cash Pond	Bradford	41-40-11	76-33-52	Powell	14.9	SRBC	
DDB	430 Chester Water Auth. - Octoraro Lake*	Lancaster	39-47-50	76-02-30	Kirkwood	654.0	DHL	>14
FBC	272 Childrens Lake	Cumberland	40-08-50	77-07-31	Carlisle	6.5	CCD	
DDB	594 Lake Chillisquaque	Montour	41-06-06	76-39-36	Washingtonville	176.0	SRBC	>14
SRBC	914 Chillson Pond	Bradford	41-48-32	76-14-02	Le Raysville	13.6	SRBC	
FBC	159 Cold Stream Dam	Centre	40-53-56	78-12-32	Philipsburg	7.4	SRBC	
DDB	137 Colyer Lake	Centre	40-46-42	77-40-48	Centre Hall	76.0	DHL	>14
SRBC	1048 Dunn Pond	Susquehanna	41-49-48	75-28-30	Orson	104.0	SRBC	
DDB	479 Ebenezer Union Canal Dam, (a.k.a. Lights Dam and Lions Lake)	Lebanon	40-21-30	76-27-06	Lebanon	9.1	CCD	>14
DDB	815 Eldridge Pond Dam (a.k.a. Eldridge Lake)	Tioga	41-51-48	77-30-50	Sabinsville	7.6	SRBC	
DDB	404 Ford Lake Dam *	Lackawanna	41-29-25	75-45-58	Ransom	69.9	CCD	>14
FBC	495 Lake Francis	Luzerne	41-06-01	75-53-06	Freeland (pr 1984)	10.2	SRBC	
CCD	1154 Gephart	Sullivan	41-31-46	76-18-38	Colley	14.5	CCD	
FBC	197 Goss Run Dam (a.k.a. Brisbin Dam)	Clearfield	40-50-21	78-21-06	Houtzdale	2.5	SRBC	
SRBC	924 Haig Pond	Bradford	41-52-33	76-12-17	Little Meadows	31.9	SRBC	
DDB	852 Hanover Mun. Water-Long Arm Reservoir	York	39-45-18	76-59-43	Hanover	247.0	CCD	>14
DDB	798 Hamilton Lake (Pa.-602) *	Tioga	41-44-12	77-15-54	Antrim	44.0	SRBC	>14
FBC	543 Harris Pond	Luzerne	41-17-36	76-08-00	Sweet Valley	40.6	SRBC	
FBC	551 Harveys Lake	Luzerne	41-21-06	76-03-00	Harveys Lake	639.0	DHL	
DDB	744 Horton Lake Dam	Susquehanna	41-43-29	75-41-33	Lenoxville	37.7	SRBC	>14
DDB	724 Hunters Lake	Sullivan	41-22-36	76-37-18	Eagles Mere	115.0	DHL	>14

*Duplicate entries

Table 2. ***Final List (Alphabetical) of Potentially Significant, Publicly-Owned Lakes in the Susquehanna River Basin—Continued***

Source	Lake or Reservoir Number and Name		County	Latitude	Longitude	USGS Quad	Lake Area (acres)	Public Access Source	Detention Time (days)
FBC	491	Irena Lake *	Luzerne	40-58-48	76-00-12	Conyngham	13.2	SRBC	
SRBC	980	Lake John *	Sullivan	42-25-42	76-16-18	Lopez	64.0	CCD	
CCD	1150	Kast Pond	Sullivan	41-31-36	76-24-00	Dushore	17.8	CCD	
DHL	1109	Lakeside Pond (a.k.a. Tarbell Pond)	Susquehanna	41-40-48	75-49-00	Hop Bottom	48.5	SRBC	>14
DDB	591	Laurel Creek Reservoir	Mifflin	40-43-48	77-37-48	Barrville	64.8	CCD	>14
FBC	498	Lily Lake	Luzerne	41-08-16	76-05-02	Nanticoke	164.0	SRBC	
DDB	702	Lofty Messer's Run *	Schuylkill	40-52-21	76-02-35	Delano	29.4	SRBC	>14
FBC	726	Lopez Pond	Sullivan	41-23-56	76-23-19	Laporte	19.5	PGC	
DDB	756	Lower Alford Lake	Susquehanna	41-48-24	75-46-30	Montrose East	34.4	SRBC	>14
DDB	481	Marquette Lake	Lebanon	40-26-00	76-35-42	Indiantown Gap	16.7	CCD–SRBC	
DDB	423	Merli-Sarnoski Park Lake (a.k.a. Mt. Mud Pond)*	Lackawanna	41-35-25	75-31-51	Carbondale	24.1	CCD	
DDB	462	Middle Creek	Lancaster	40-15-54	76-14-18	Womelsdorf	330.0	CCD	>14
DDB	763	Lake Montrose *	Susquehanna	41-50-42	75-51-36	Montrose East	42.6	SRBC	>14
FBC	524	Moon Lake	Luzerne	41-15-04	76-02-52	Harveys Lake	48.9	SRBC	
DDB	466	Mt. Gretna Lake (a.k.a. Conewago Lake)	Lebanon	40-14-42	76-28-48	Manheim	11.3	CCD	>14
FBC	89	Mountain Lake	Bradford	41-45-58	76-35-04	Ulster	41.5	CCD	
FBC	550	Mountain Spring Lake	Luzerne	41-20-23	76-13-36	Sweet Valley	43.4	SRBC	
DHL	1128	Mud Pond Dam (a.k.a. Swimming Dam)	Bradford	41-39-24	76-38-06	Leroy	38.2	DHL	>14
DDB	435	Muddy Run Rec. Reservoir	Lancaster	39-50-36	76-16-42	Holtwood	104.0	CCD	>14
DDB	795	Lake Nessmuk (Pa.-601) *	Tioga	41-43-54	77-17-36	Antrim	59.2	SRBC	>14
FBC	427	Newton Lake	Lackawanna	41-38-15	76-33-12	Clifford	142.0	CCD	
SRBC	974	Nuangola Lake	Luzerne	41-09-48	75-58-07	Wilkes-Barre W	104.0	SRBC	
DDB	95	Lake Ondawa (a.k.a. Big Pond)	Bradford	41-53-06	76-42-30	Bentley Creek	26.9	SRBC	>14
DDB	280	Opposum Lake	Cumberland	40-13-30	77-16-30	Plainfield	60.3	DHL	>14
DDB	688	Park Place Dam No. 3 *	Schuylkill	40-50-26	76-06-42	Delano	7.8	SRBC	>14
DDB	250	Pa.-497–Briar Creek Reservoir	Columbia	41-04-00	76-16-48	Mifflinville	51.2	CCD	>14
DDB	419	Pa. Gas & Water Co. Carbondale No. 4 *	Lackawanna	41-34-27	75-27-36	Waymart	58.9	PA G&W	>14
DDB	412	Pa. Gas & Water Co. Chapman Lake	Lackawanna	41-32-53	75-35-12	Carbondale	95.4	CCD	>14
DDB	370	Pa. Gas & Water Co. Curtis *	Lackawanna	41-22-27	75-30-18	Moscow	74.9	PA G&W	14

*Duplicate entries

Table 2. *Final List (Alphabetical)of Potentially Significant, Publicly-Owned Lakes in the Susquehanna River Basin—Continued*

Source	Lake or Reservoir Number and Name	County	Latitude	Longitude	USGS Quad	Lake Area (acres)	Public Access Source	Detention Time (days)
DDB	380 Pa. Gas & Water Co. Dunmore No. 1 *	Lackawanna	41-24-56	75-35-54	Olyphant	22.7	PA G&W	>14
DDB	367 Pa. Gas & Water Co. Elmhurst *	Lackawanna	41-22-15	75-32-21	Moscow	180.0	PA G&W	>14
DDB	363 Pa. Gas & Water Co. Stark Reservoir	Lackawanna	41-20-38	75-41-00	Avoca	4.4	PA G&W	>14
DDB	399 Pa. Gas & Water Co. Summit Lake *	Lackawanna	41-28-30	75-42-48	Scranton	59.6	PA G&W	>14
SRBC	984 Pine Marsh	Sullivan	41-29-27	76-16-12	Lopez	18.6	SRBC	
SRBC	1011 Polk Pond (a.k.a. Pulk Pond)	Susquehanna	41-46-12	75-42-33	Harford	31.0	SRBC	
FBC	786 Quaker Lake	Susquehanna	41-58-48	75-55-24	Laurel Lake	124.0	PFB C	
DDB	872 Lake Redman	York	39-53-54	76-42-54	York	269.0	CCD	>14
DDB	471 Rexmont # 1 (a.k.a. Lebanon Reservoirs)	Lebanon	40-16-48	76-21-30	Richland	9.0	CCD	>14
DDB	469 Rexmont # 2 (a.k.a. Lebanon Reservoirs)	Lebanon	40-16-36	76-21-36	Richland	8.1	CCD	>14
SRBC	915 Rockwell Pond	Bradford	41-50-15	76-14-39	Le Raysville	22.7	SRBC	
DDB	581 Rose Valley Lake	Lycoming	41-23-12	75-59-54	Bodine	411.0	CCD	>14
CCD	1156 Seeleyville Dam	Sullivan	41-31-00	76-18-30	Colley	12.4	CCD	
DDB	213 Shaggers Inn Waterfowl Dam	Clearfield	41-12-11	78-25-18	Huntley	2.4	SRBC	>14
DDB	340 Shaver Creek (a.k.a. University Dam)	Huntingdon	40-39-30	77-55-00	Pine Grove Mills	69.3	SRBC	>14
DDB	849 Sheppard Myers Reservoir	York	39-44-05	76-57-38	Manchester	51.0	SRBC	>14
FBC	730 Shumans Lake	Sullivan	41-27-04	76-16-38	Lopez	51.0	SRBC	
FBC	527 Lake Silkworth	Luzerne	41-16-16	76-04-54	Harveys Lake	8.5	SRBC	
FBC	321 Sinoquipe Lake	Fulton	40-05-42	77-58-00	Burnt Cabins	12.6	CCD	
FBC	731 Sones Pond	Sullivan	41-28-18	76-30-55	Eagles Mere	13.8	DHL	>14
FBC	460 Speedwell Forge Lake	Lancaster	40-12-12	76-18-24	Lititz	97.1	CCD	>14
SRBC	979 Splashdam Pond	Sullivan	41-24-44	76-16-46	Lopez	57.1	PGC	
SRBC	901 Stacey Pond	Bradford	41-53-32	76-44-42	Bentley Creek	12.8	SRBC	
DDB	773 Star Lake Dam (a.k.a. Ross Pond)	Susquehanna	41-53-56	75-35-29	Susquehanna	52.4	SRBC	>14
DDB	845 Stevens Lake Dam (a.k.a. Mud Pond)	Wyoming	41-35-54	75-56-36	Tunkhannock	76.7	CCD	>14
DDB	477 Stoevers Dam	Lebanon	40-21-12	76-24-24	Lebanon	20.5	CCD	>14
FBC	79 Sunfish Pond	Bradford	41-38-27	76-41-46	Leroy	26.8	CCD & PFBC	
DDB	642 Sweet Arrow Lake	Schuylkill	40-34-12	76-22-01	Swatara Hill	91.9	DHL	>14
FBC	526 Sylvan Lake	Luzerne	41-15-12	76-09-24	Sweet Valley	131.0	SRBC	

*Duplicate entries

Table 2. ***Final List (Alphabetical) of Potentially Significant, Publicly-Owned Lakes in the Susquehanna River Basin—Continued***

Source	Lake or Reservoir Number and Name	County	Latitude	Longitude	USGS Quad	Lake Area (acres)	Public Access Source	Detention Time (days)
DDB	745 Tuscarora Lake	Susquehanna	41-44-18	76-05-36	Auburn Center	70.5	DHL	>14
CCD	1170 Tyrone Sportsman Club	Blair	40-43-07	78-12-45	Tyrone	3.0	CCD	
SRBC	906 Unnamed	Bradford	41-47-38	76-39-30	East Troy	12.1	SRBC	
SRBC	938 Unnamed	Bradford	41-49-06	76-31-38	Ulster	28.9	SRBC	
SRBC	1057 Unnamed	Susquehanna	41-59-30	75-31-25	Susquehanna	14.7	SRBC	
SRBC	931 Unnamed (a.k.a. Allen's Lake)	Bradford	41-40-04	76-37-02	Powell	29.4	SRBC	
SRBC	910 Unnamed (Brownings Pond)	Bradford	41-42-36	76-12-07	Laceyville	24.1	SRBC	
SRBC	1022 Unnamed (a.k.a. Cozy Lake)	Susquehanna	41-43-47	75-48-25	Hop Bottom	12.2	SRBC	
SRBC	999 Unnamed (a.k.a. Lake Erie)	Susquehanna	41-38-36	75-28-36	Forest City	22.0	SRBC	
SRBC	1049 Unnamed (a.k.a. Lake Larue)	Susquehanna	41-43-29	75-55-28	Springville	24.6	SRBC	
DDB	81 Unnamed (PA-RC&D-102)	Bradford	41-38-36	76-19-42	Wyalusing	27.2	SRBC	>14
DHL	1131 Unnamed (PA-RC&D-103)	Bradford	41-38-42	76-20-36	Wyalusing	18.0	DHL	>14
SRBC	905 Unnamed (Wrisleys Lake)	Bradford	41-46-54	76-39-21	East Troy	14.1	SRBC	
DDB	718 C.F. Walker Lake - Middle Creek Dam	Snyder	40-47-48	77-11-48	Beavertown	237.0	DHL	>14
SRBC	946 Wildwood Lake	Dauphin	40-18-45	76-53-13	Harrisburg West	87.9	CCD*	
DDB	869 Lake Williams Dam (a.k.a. York Reservoir)	York	39-53-30	76-43-48	York	179.0	CCD	>14
FBC	833 Lake Winola	Wyoming	41-30-34	75-50-33	Factoryville	191.0	DHL	>14
FBC	600 Zerbe Twp. R G C Pond	Northumberland	40-47-09	76-39-24	Treverton	2.3	CCD	
	State Park and COE Lake Number and Name							
FBC	165 Black Moshannon Lake- Kephart Dam *	Centre	40-55-06	78-03-36	Black Moshannon	236.0		
DDB	244 Alvin R Bush (COE)	Clinton	41-21-36	77-55-30	Keating	139.0	DHL	>14
DDB	49 Canoe Creek Lake	Blair	40-28-42	78-16-54	Frankstown	158.0	CCD	>14
DDB	319 Cowans Gap Lake	Fulton	40-00-24	77-55-24	Burnt Cabins	42.1	CCD	>14
FBC	813 Cowanesque Reservoir (COE)	Tioga	41-59-16	77-09-10	Tioga	377.0	SRBC	
DDB	199 Curwensville Reservoir * (COE)	Clearfield	40-57-04	78-31-25	Curwensville	820.0	DHL	>14
FBC	283 Doubling Gap Lake, Col. Denning State Park	Cumberland	40-16-58	77-24-53	Andersonburg	3.0	CCD	
FBC	264 Fuller Lake, Pine Grove Furnace State Park	Cumberland	40-01-49	77-17-53	Dickinson	4.4	CCD	

*Duplicate entries

Table 2. ***Final List (Alphabetical) of Potentially Significant, Publicly-Owned Lakes in the Susquehanna River Basin—Continued***

Source	State Park and COE Lake Number and Name	County	Latitude	Longitude	USGS Quad	Lake Area (acres)	Public Access Source	Detention Time (days)
DDB	122 Glendale Dam, Prince Gallitzin State Park	Cambria	40-39-00	78-32-00	Coalport	1,620.0	CCD	>14
FBC	338 Greenwood Lake	Huntingdon	40-38-56	77-45-33	McAlevys Fort	5.4	CCD	
CCD	1171 Halfway Lake- R.B. Winter State Park	Union	40-59-04	77-11-04	Hartleton	6.7	CCD	
FBC	810 Hammond Lake (COE)	Tioga	41-54-04	77-08-55	Tioga	673.0	SRBC	
DDB	803 Hills Creek Lake	Tioga	41-48-18	77-11-48	Crooked Creek	130.0	DHL	>14
FBC	626 Holman Lake, Little Buffalo State Park	Perry	40-27-18	77-10-24	Newport	95.8	CCD	>14
FBC	549 Lake Jean	Luzerne	41-20-06	76-18-00	Red Rock	252.0	DHL	
DDB	415 Lake Lackawanna	Lackawanna	41-33-18	75-42-42	Dalton	256.0	CCD	>14
DDB	266 Laurel Lake	Cumberland	40-02-24	77-16-66	Dickinson	21.8	CCD	
DDB	580 Little Pine Creek Dam	Lycoming	41-21-18	77-21-24	Waterville	601.0	DHL	>14
DDB	860 Lake Marburg	York	39-48-36	76-52-54	Hanover	1,180.0	DHL	>14
FBC	480 Memorial Lake	Lebanon	40-25-07	76-35-31	Indiantown Gap	89.4	DHL	
FBC	211 Parker Lake	Clearfield	41-11-54	78-30-24	Pennfield	19.2	SRBC	
DDB	890 Conewago Lake, Gifford Pinchot State Park	York	40-05-23	76-52-21	Dover	366.0	DHL	>14
DDB	147 Poe Valley Lake	Centre	40-49-24	77-28-06	Coburn	23.2	DHL	>14
FBC	326 Raystown Lake (COE)	Huntingdon	40-26-02	78-00-26	Huntingdon (Dam Loc.)	8,470.0	CCD	
DDB	178 Foster Joseph Sayers Dam - Blanchard Res.	Centre	41-02-42	77-36-36	Beech Creek	3,850.0	DHL	>14
DDB	20 Shawnee Lake	Bedford	40-01-53	78-37-09	Bedford	488.0	DHL	>14
FBC	548 Frances Slocum Lake	Luzerne	41-19-54	75-53-06	Kingston	162.0	DHL	>14
DDB	94 Stephen Foster Dam	Bradford	41-48-17	76-39-31	East Troy	64.8	CCD & PFBC	>14
DDB	128 George B. Stevenson (COE)	Cameron	41-24-30	78-01-06	First Fork	145.0	DHL	>14
SRBC	998 Stillwater Lake (COE)	Susquehanna	41-41-49	75-29-10	Forrest City	192.0	SRBC	
FBC	341 Whipple Lake	Huntingdon	40-40-58	77-51-56	McAlveys Fort	16.1	CCD	

*Duplicate entries

Table 3. *Final List (by County) of Potentially Significant, Publicly-Owned Lakes in the Susquehanna River Basin*

Source	Lake or Reservoir Number and Name	County	Latitude	Longitude	USGS Quad	Public Access Source	Detention Time (days)	Comments
DDB	20 Shawnee Lake	Bedford	40-01-53	78-37-09	Bedford	DHL	>14	Shawnee State Park Sampled
DDB	49 Canoe Creek Lake	Blair	40-28-42	78-16-54	Frankstown	CCD	>14	Canoe Creek State Park Sampled
CCD	1170 Tyrone Sportsman Club	Blair	40-43-07	78-12-45	Tyrone	CCD		Public fishing
DDB	94 Stephen Foster Lake	Bradford	41-48-17	76-39-31	East Troy	PFBC	>14	Mt. Pisgah State Park
DDB	95 Lake Ondawa (a.k.a. Big Pond)	Bradford	41-53-06	76-42-30	Bentley Creek	SRBC	>14	
SRBC	901 Stacey Pond	Bradford	41-53-32	76-44-42	Bentley Creek	SRBC		State game land 123
SRBC	905 Unnamed (Wrisleys Lake)	Bradford	41-46-54	76-39-21	East Troy	SRBC		
SRBC	906 Unnamed	Bradford	41-47-38	76-39-30	East Troy	SRBC		State game land 289
SRBC	910 Unnamed (Brownings Pond)	Bradford	41-42-36	76-12-07	Laceyville	SRBC		
SRBC	914 Chillson Pond	Bradford	41-48-32	76-14-02	Le Raysville	SRBC		
SRBC	915 Rockwell Pond	Bradford	41-50-15	76-14-39	Le Raysville	SRBC		
FBC	79 Sunfish Pond	Bradford	41-38-27	76-41-46	Leroy	PFBC		
DHL	1128 Mud Pond Dam (a.k.a. Swimming Dam)	Bradford	41-39-24	76-38-06	Leroy	DHL	>14	State game land 12
SRBC	924 Haig Pond	Bradford	41-52-33	76-12-17	Little Meadows	SRBC		
SRBC	927 Ackleys Pond	Bradford	41-41-05	76-22-36	Monroeton	SRBC		
SRBC	931 Unnamed (a.k.a. Allen's Lake)	Bradford	41-40-04	76-37-02	Powell	SRBC		
SRBC	930 Cash Pond	Bradford	41-40-11	76-33-52	Powell	SRBC		State game land 36
SRBC	934 Balsam Pond	Bradford	41-53-03	76-32-56	Sayre	SRBC		
DHL	1130 Black Pond (a.k.a. Blacks Lake)	Bradford	41-49-06	76-25-42	Towanda	DHL	>14	
FBC	89 Mountain Lake	Bradford	41-45-58	76-35-04	Ulster	CCD		
SRBC	938 Unnamed	Bradford	41-49-06	76-31-38	Ulster	SRBC		
DDB	81 Unnamed (PA-RC&D-102)	Bradford	41-38-36	76-19-42	Wyalusing	SRBC	>14	State game land 250
DHL	1131 Unnamed (PA-RC&D-103)	Bradford	41-38-42	76-20-36	Wyalusing	DHL	>14	State game land 250
DDB	122 Glendale Lake	Cambria	40-39-00	78-32-00	Coalport	CCD	>14	Prince Gallitzin State Park, Duplicate of 1089, 1090
DDB	128 George B. Stevenson	Cameron	41-24-30	78-01-06	First Fork	DHL	>14	Sinnemahoning State Park, COE
DDB	137 Colyer Lake	Centre	40-46-12	77-40-48	Centre Hall	DHL	>14	

Table 3. Final List (by County) of Potentially Significant, Publicly-Owned Lakes in the Susquehanna River Basin—Continued

Source	Lake or Reservoir Number and Name	County	Latitude	Longitude	USGS Quad	Public Access Source	Detention Time (days)	Comments
FBC	159 Cold Stream Dam	Centre	40-53-56	78-12-32	Philipsburg	SRBC		
FBC	134 Boy Scout Dam	Centre	40-45-47	77-36-13	Spring Mills	SRBC		
DDB	147 Poe Valley Lake	Centre	40-49-24	77-28-06	Coburn	DHL	>14	Poe Valley State Park
FBC	165 Black Moshannon Lake- Kephart Dam	Centre	40-55-06	78-03-36	Black Moshannon			Duplicate of 1134, Black Moshannon State Park
DDB	178 Foster Joseph Sayers Dam - Blanchard Res.	Centre	41-02-42	77-36-36	Beech Creek	DHL	>14	Bald Eagle State Park
FBC	197 Goss Run Dam (a.k.a. Brisbin Dam)	Clearfield	40-50-21	78-21-06	Houtzdale	SRBC		
DDB	199 Curwensville Dam	Clearfield	40-57-04	78-31-25	Curwensville	DHL	>14	COE, Duplicate of 216
FBC	211 Parker Lake	Clearfield	41-11-54	78-30-24	Pennfield	SRBC		Parker Dam State Park, Sampled
DDB	213 Shaggers Inn Waterfowl Dam	Clearfield	41-12-11	78-25-18	Huntley	SRBC	>14	
DDB	244 Alvin R Bush	Clinton	41-21-36	77-55-30	Keating	DHL	>14	Kettle Creek State Park, COE
DDB	250 Briar Creek Reservoir (Pa.-497)	Columbia	41-04-00	76-16-48	Mifflinville	CCD	>14	
FBC	264 Fuller Lake	Cumberland	40-01-49	77-17-53	Dickinson	CCD		Pine Grove Furnace State Park
DDB	266 Laurel Lake	Cumberland	40-02-24	77-16-06	Dickinson	CCD		Pine Grove Furnace State Park
FBC	272 Childrens Lake	Cumberland	40-08-50	77-07-31	Carlisle	CCD		
DDB	280 Opposum Lake	Cumberland	40-13-30	77-16-30	Plainfield	DHL	>14	
FBC	283 Doubling Gap Lake	Cumberland	40-16-58	77-24-53	Andersonburg	CCD		Col. Denning State Park
SRBC	946 Wildwood Lake	Dauphin	40-18-45	76-53-13	Harrisburg West	CCD		
DDB	319 Cowans Gap Lake	Fulton	40-00-24	77-55-24	Burnt Cabins	CCD	>14	Cowans Gap State Park
FBC	321 Sinoquipe Lake	Fulton	40-05-42	77-58-00	Burnt Cabins	CCD		
FBC	326 Raystown Lake	Huntingdon	40-26-02	78-00-26	Huntingdon (Dam Loc.)	CCD		COE
FBC	338 Greenwood Lake	Huntingdon	40-38-56	77-45-33	McAlevys Fort	CCD		Greenwood Furnace State Park
DDB	340 Shaver Creek (a.k.a. University Dam)	Huntingdon	40-39-30	77-55-00	Pine Grove Mills	SRBC	>14	
FBC	341 Whipple Lake	Huntingdon	40-40-58	77-51-56	McAlveys Fort	CCD		Whipple Dam State Park

Table 3. ***Final List (by County) of Potentially Significant, Publicly-Owned Lakes in the Susquehanna River Basin—Continued***

Source	Lake or Reservoir Number and Name	County	Latitude	Longitude	USGS Quad	Public Access Source	Detention Time (days)	Comments
DDB	363 Pa. Gas & Water Co. Stark Reservoir	Lackawanna	41-20-38	75-41-00	Avoca	PA G&W	>14	
DDB	412 Pa. Gas & Water Co. Chapman Lake	Lackawanna	41-32-53	75-35-42	Carbondale	CCD	>14	Parking fee
DDB	415 Lake Lackawanna	Lackawanna	41-33-18	75-42-42	Dalton	CCD	>14	Lackawanna State Park, Sampled
DDB	423 Merli-Sarnoski Park Lake (a.k.a. Mt. Mud Pond)	Lackawanna	41-35-25	75-31-51	Carbondale	CCD		Duplicate of 949
FBC	427 Newton Lake	Lackawanna	41-38-15	76-33-12	Clifford	CCD		
DDB	367 Pa. Gas & Water Co. Elmhurst	Lackawanna	41-22-15	75-32-21	Moscow	PA G&W	>14	Duplicate of 368
DDB	370 Pa. Gas & Water Co. Curtis	Lackawanna	41-22-27	75-30-18	Moscow	PA G&W	>14	Duplicate of 371
DDB	380 Pa. Gas & Water Co. Dunmore No. 1	Lackawanna	41-24-56	75-35-54	Olyphant	PA G&W	>14	Duplicate of 381
DDB	404 Ford Lake Dam	Lackawanna	41-29-25	75-45-58	Ransom	CCD	>14	Duplicate of 402, sampled
DDB	399 Pa. Gas & Water Co. Summit Lake	Lackawanna	41-28-30	75-42-48	Scranton	PA G&W	>14	Duplicate of 398
DDB	419 Pa. Gas & Water Co. Carbondale No. 4	Lackawanna	41-34-27	75-27-36	Waymart	PA G&W	>14	Duplicate of 420
DDB	435 Muddy Run Rec. Reservoir	Lancaster	39-50-36	76-16-42	Holtwood	CCD	>14	
DDB	430 Chester Water Auth. - Octoraro Lake	Lancaster	39-47-50	76-02-30	Kirkwood	DHL	>14	Duplicate of 184
FBC	460 Speedwell Forge Lake	Lancaster	40-12-12	76-18-24	Lititz	CCD	>14	Sampled
DDB	462 Middle Creek	Lancaster	40-15-54	76-14-18	Womelsdorf	CCD	>14	State game land 46
FBC	480 Memorial Lake	Lebanon	40-25-07	76-35-31	Indiantown Gap	DHL		Memorial Lake State Park
DDB	481 Marquette Lake	Lebanon	40-26-00	76-35-42	Indiantown Gap	CCD–SRBC		
DDB	477 Stoevers Dam	Lebanon	40-21-12	76-24-24	Lebanon	CCD	>14	
DDB	479 Ebenezer Union Canal Dam, (a.k.a. Lights Dam and Lions Lake)	Lebanon	40-21-30	76-27-06	Lebanon	CCD	>14	
DDB	466 Mt. Gretna Lake (a.k.a. Conewago Lake)	Lebanon	40-14-42	76-28-48	Manheim	CCD	>14	
DDB	469 Rexmont # 2 (a.k.a. Lebanon Reservoirs)	Lebanon	40-16-36	76-21-36	Richland	CCD	>14	
DDB	471 Rexmont # 1 (a.k.a. Lebanon Reservoirs)	Lebanon	40-16-48	76-21-30	Richland	CCD	>14	
FBC	491 Irena Lake	Luzerne	40-58-48	76-00-12	Conyngham	SRBC		Duplicate of 490
FBC	495 Lake Francis	Luzerne	41-06-01	75-53-06	Freeland (pr 1984)	SRBC		State game land 187
FBC	524 Moon Lake	Luzerne	41-15-04	76-02-52	Harveys Lake	SRBC		

Table 3. Final List (by County) of Potentially Significant, Publicly-Owned Lakes in the Susquehanna River Basin—Continued

Source	Lake or Reservoir Number and Name	County	Latitude	Longitude	USGS Quad	Public Access Source	Detention Time (days)	Comments
FBC	527 Lake Silkworth	Luzerne	41-16-16	76-04-54	Harveys Lake	SRBC		Limited to shore fishing
FBC	551 Harveys Lake	Luzerne	41-21-06	76-03-00	Harveys Lake	DHL		
FBC	498 Lily Lake	Luzerne	41-08-16	76-05-02	Nanticoke	SRBC		
FBC	526 Sylvan Lake	Luzerne	41-15-12	76-09-24	Sweet Valley	SRBC		
FBC	543 Harris Pond	Luzerne	41-17-36	76-08-00	Sweet Valley	SRBC		
FBC	548 Frances Slocum Lake	Luzerne	41-19-54	75-53-06	Kingston	DHL	>14	Frances Slocum State Park
FBC	549 Lake Jean	Luzerne	41-20-06	76-18-00	Red Rock	DHL		Ricketts Glen State Park
FBC	550 Mountain Spring Lake	Luzerne	41-20-23	76-13-36	Sweet Valley	SRBC		
SRBC	974 Nuangola Lake	Luzerne	41-09-48	75-58-07	Wilkes-Barre W	SRBC		
DDB	580 Little Pine Creek Dam	Lycoming	41-21-18	77-21-24	Waterville	DHL	>14	Little Pine State Park
DDB	581 Rose Valley Lake	Lycoming	41-23-12	75-59-54	Bodine	CCD	>14	
DDB	591 Laurel Creek Dam	Mifflin	40-43-48	77-37-48	Barrville	CCD	>14	
DDB	594 Lake Chillisquaque	Montour	41-06-06	76-39-36	Washingtonville	SRBC	>14	
FBC	600 Zerbe Twp. R G C Pond	Northumberland	40-47-09	76-39-24	Treverton	CCD		
FBC	626 Holman Lake (a.k.a. Little Buffalo Lake)	Perry	40-27-18	77-10-24	Newport	CCD	>14	Little Buffalo State Park
DDB	688 Park Place Dam No. 3	Schuylkill	40-50-26	76-06-42	Delano	SRBC	>14	Duplicate of 1105
DDB	702 Lofty Messer's Run (Mahanoy Twp. Auth.)	Schuylkill	40-52-21	76-02-35	Delano	SRBC	>14	Duplicate of 701, State game land 308
DDB	642 Sweet Arrow Lake	Schuylkill	40-34-12	76-22-01	Swatara Hill	DHL	>14	
DDB	718 C.F. Walker Lake - Middle Creek Dam	Snyder	40-47-48	77-11-48	Beavertown	DHL	>14	Sampled
CCD	1156 Seeleyville Dam	Sullivan	41-31-00	76-18-30	Colley	CCD		State game land 66
CCD	1154 Gephart	Sullivan	41-31-46	76-18-38	Colley	CCD		State game land 66
CCD	1150 Kast Pond	Sullivan	41-31-36	76-24-00	Dushore	CCD		
DDB	724 Hunters Lake	Sullivan	41-22-36	76-37-18	Eagles Mere	DHL	>14	
FBC	731 Sones Pond	Sullivan	41-28-18	76-30-55	Eagles Mere	DHL	>14	State forest
FBC	726 Lopez Pond	Sullivan	41-23-56	76-23-19	Laporte	PGC		State game land 13
SRBC	979 Splashdam Pond	Sullivan	41-24-44	76-16-46	Lopez	PGC		State game land 13
FBC	730 Shumans Lake	Sullivan	41-27-04	76-16-38	Lopez	SRBC		State game land 66
SRBC	984 Pine Marsh	Sullivan	41-29-27	76-16-12	Lopez	SRBC		State game land 66

Table 3. Final List (by County) of Potentially Significant, Publicly-Owned Lakes in the Susquehanna River Basin—Continued

Source	Lake or Reservoir Number and Name	County	Latitude	Longitude	USGS Quad	Public Access Source	Detention Time (days)	Comments
SRBC	980 Lake John	Sullivan	42-25-42	76-16-18	Lopez	CCD		State game land 66, duplicate of 1155
FBC	734 Bear Wallow Pond	Sullivan	41-30-33	76-44-39	Shunk	SRBC		State forest
SRBC	998 Stillwater Lake	Susquehanna	41-41-49	75-29-10	Forrest City			COE
DDB	745 Tuscarora Lake	Susquehanna	41-44-18	76-05-36	Auburn Center	DHL	>14	
SRBC	999 Unnamed (a.k.a. Lake Erie)	Susquehanna	41-38-36	75-28-36	Forest City	SRBC		
SRBC	1011 Polk Pond (a.k.a. Pulk Pond)	Susquehanna	41-46-12	75-42-33	Harford	SRBC		
DHL	1109 Lakeside Pond (a.k.a. Tarbell Pond)	Susquehanna	41-40-48	75-49-00	Hop Bottom	SRBC	>14	Pull offs noted
SRBC	1022 Unnamed (a.k.a. Cozy Lake)	Susquehanna	41-43-47	75-48-25	Hop Bottom	SRBC		Fishing allowed
FBC	786 Quaker Lake	Susquehanna	41-58-48	75-55-24	Laurel Lake	PFBC		PA F&B boat ramp
DDB	744 Horton Lake Dam	Susquehanna	41-43-29	75-41-33	Lenoxville	SRBC	>14	Boat rentals, fishing fees
DDB	756 Lower Alford Lake	Susquehanna	41-48-24	75-46-30	Montrose East	SRBC	>14	Pull-offs noted
DDB	763 Lake Montrose	Susquehanna	41-50-42	75-51-36	Montrose East	SRBC	>14	Duplicate of 761
SRBC	1048 Dunn Pond	Susquehanna	41-49-48	75-28-30	Orson	SRBC		Fishing by permit
SRBC	1049 Unnamed (a.k.a. Lake Larue)	Susquehanna	41-43-29	75-55-28	Springville	SRBC		
DDB	773 Star Lake Dam (a.k.a. Ross Pond)	Susquehanna	41-53-56	75-35-29	Susquehanna	SRBC	>14	
SRBC	1057 Unnamed	Susquehanna	41-59-30	75-31-25	Susquehanna	SRBC		State game land 70
DDB	795 Lake Nessmuk (Pa.-601)	Tioga	41-43-54	77-17-36	Antrim	SRBC	>14	Duplicate of 797
DDB	798 Hamilton Lake (Pa.-602)	Tioga	41-44-12	77-15-54	Antrim	SRBC	>14	Duplicate of 800
DDB	803 Hills Creek Lake (Dam)	Tioga	41-48-18	77-11-48	Crooked Creek	DHL	>14	Hills Creek State Park, Sampled
DDB	809 Beechwood Lake (Pa.-454)	Tioga	41-51-06	77-30-48	Sabinsville	SRBC	>14	
DDB	815 Eldridge Pond Dam (a.k.a. Eldridge Lake)	Tioga	41-51-48	77-30-50	Sabinsville	SRBC		
FBC	810 Hammond Lake	Tioga	41-54-04	77-08-55	Tioga	SRBC		COE
FBC	813 Cowanesque Reservoir	Tioga	41-59-16	77-09-10	Tioga	SRBC		COE
CCD	1171 Halfway Lake	Union	40-59-04	77-11-04	Hartleton	CCD		R.B. Winter State Park
FBC	833 Lake Winola	Wyoming	41-30-34	75-50-33	Factoryville	DHL	>14	Sampled
FBC	843 Lake Carey	Wyoming	41-35-18	75-55-30	Tunkhannock	DHL	>14	Sampled
DDB	845 Stevens Lake Dam (a.k.a. Mud Pond)	Wyoming	41-35-54	75-56-36	Tunkhannock	CCD	>14	
DDB	852 Hanover Mun. Water-Long Arm Reservoir	York	39-45-18	76-59-43	Hanover	CCD	>14	PA F&B boat ramp

Table 3. Final List (by County) of Potentially Significant, Publicly-Owned Lakes in the Susquehanna River Basin—Continued

Source	Lake or Reservoir Number and Name	County	Latitude	Longitude	USGS Quad	Public Access Source	Detention Time (days)	Comments
DDB	849 Sheppard Myers Reservoir	York	39-44-05	76-57-38	Manchester	SRBC	>14	Shore fishing only
DDB	869 Lake Williams Dam (a.k.a. York Reservoir)	York	39-53-30	76-43-48	York	CCD	>14	
DDB	872 Lake Redman	York	39-53-54	76-42-54	York	CCD	>14	
DDB	890 Conewago Lake	York	40-05-23	76-52-21	Dover	DHL	>14	Gifford Pinchot State Park
DDB	860 Lake Marburg	York	39-48-36	76-52-54	Hanover	DHL	>14	Codorus State Park

Table 4. Published Sources and Computer Databases Used in the Inventory

Published Sources

Barker, J.L. 1978. Characteristics of Pennsylvania Recreational Lakes. Pennsylvania Department of Resources (Water Resources Bulletin No. 14), 226 pp.

Pennsylvania Department of Environmental Resources. 1968. Lakes and Ponds Inventory, North Atlantic Regional Water Resources Study Subregion E, New York, Pennsylvania. Delaware, Maryland, Virginia. Bureau of Outdoor Recreation, September 1968.

Pennsylvania Department of Forests and Waters, Bureau of Engineering. 1970. Dams, Reservoirs and Natural Lakes. Water Resources Planning Inventory No. 1, (Water Resources Bulletin No. 5), 101 pp.

U.S. Army Corps of Engineers. 1981. National Dam Safety Program, Inventory of Dams—Pennsylvania, Harrisburg, Pa., prepared by Geo-Technical Services, Inc., 156 pp.

Vivid Publishing, Inc. 1992. Stream Map Location Guide, for Howard Wm. Higbee's Stream Map of Pennsylvania. Williamsport, Pa., 14 pp.

Computerized Databases

Pennsylvania Department of Environmental Resources. 1994. Reservoir and natural lakes database. Harrisburg, Pa., Division of Water Planning & Allocation, Bureau of Water Supply & Community Health.

Pennsylvania Fish and Boat Commission. 1994. Lake database. Bellefonte, Pa., Division of Fisheries Management, March 1994.

U.S. Environmental Protection Agency. 1993. Total Waters Estimates for United States Streams and Lakes: Total Waters Database and Reporting Program. Monitoring Branch Assessment and Watershed Division, Office of Wetlands, Oceans and Watersheds, Office of Water, September 1993.

This file of more than 1,000 became the foundation for the project data set. The list was subdivided by county, and mailed to the appropriate county conservation district office with the request that district staff review the list of lakes for accuracy and completeness, noting those lakes having public access, and supplying any other available information (such as detention time) currently missing from the database. County conservation districts provided information for a handful of lakes previously overlooked, and these were added to the database with the source code identified as CCD.

Responses from the conservation districts helped eliminate many private lakes from consideration, but could not provide information concerning detention time or the data required to calculate it. This list of "potentially" significant lakes served as the basis for the field work. However, even as staff began visiting lakes, the dataset was undergoing refinement. Some lakes (such as Belmont Lake) were deleted when investigators began to draw drainage divides for digitization, and a check with the USGS archived maps showed lakes to be outside the Susquehanna basin. Other lakes were removed when duplications were discovered.

Duplicate lake entries were a recurring problem for investigators and continued to be identified throughout the project. Some were identified when lakes were highlighted on topographic maps in preparation for site visits. Entries with different coordinates would plot as the same lake. This was in part an artifact of database construction. In Pa. DEP's database, data are entered by different bureaus for different purposes. A lake may appear by the dam name, the water body name, the owner's name combined with the dam or lake name, and sometimes by an identification number (as in PA-601, a.k.a. Lake Nessmuk). A second entry from the PFBC with the lake name also might be present.

These duplicate entries might have been identified earlier if presumably unique data concerning a lake had matched, but commonly, it did not. Data such as location would differ depending on how precisely latitude/longitude coordinates were determined or whether the location in question was the same. Latitude/longitude could refer to the dam, the outlet, or the lake centroid. Surface area and volume for the same lake also could vary significantly in different entries for the same lake. Perhaps the dam had been reconstructed or the reservoir management plan reformulated (like Cowanesque Lake), or one set of data might represent design standards, and a second set represent an actual lake survey.

Duplicate data for the same lake presented another problem for investigators: which set of data, or which parts of each set, was more accurate? Staff attempted to resolve these questions and consulted with staff from the Pa. DEP, Bureau of Water Supply and Community Health, who shared their recently updated data files. Duplicate entries were retained in the final dataset, but moved to a separate area. The project identification number(s) of duplicate(s) is noted in the comment column so that data can be cross-referenced.

Site Visits

During the course of the project, Commission staff visited over 250 screened sites that had a detention time greater than 14 days or unknown, and had public ownership or unknown access. Investigators found that many lakes were not accessible to the public, and deleted them from the final list. Others (like Mill Dam in Dauphin County) were deleted when investigators discovered that an inventoried site was not a lake. Investigators also assessed lake use and riparian characteristics. Copies of supplemental information including the field data sheets, lake maps, and photos are available in separate binders.

In general, field visits were organized by county. Packets of information for each county were assembled. These packets contained a list of potentially significant lakes in that county, lake assessment forms, photocopies of topographic maps showing the location of each lake, the response from the county conservation district, the name of the conservation district staff contact, and the Pennsylvania Atlas and Gazetteer and a county map for general navigation and route planning.

In each county, the conservation district office was visited first. District staff were asked to review the lake list and maps, provide any additional information concerning the lakes and lake use, and identify any lakes with positively no public access. These lakes were not visited by project investigators. District staff also were consulted about the existence of any local watershed associations.

At the inventory site, investigators confirmed the existence of a lake and addressed the question of public accessibility. Lakes having public access were photographed, the location(s) noted on the lake map, and the photo number(s) logged. Staff observed the type(s) of the lake use, and the nature and degree of shoreline development. If a road or network of roads existed, investigators circled the lake observing near-shore land use, and potential pollution problems and sources. Within a 2,000-ft buffer, any visible dwelling(s), boat docks, picnic areas, or other uses were counted, and percentages of major riparian land uses were estimated. Investigators also recorded their impressions of land use in the watershed, and highlighted the route traveled on the topographic map.

Site visits also were an opportunity to talk to people using the lake, predominantly fishermen, and nearby landowners. The information and insight provided by these people were invaluable, and important contact information was noted on the field data sheets.

Public Interest and Ownership

In this era of shrinking budgets and cutbacks, the empowerment of people with the knowledge and ethics of conservation issues can play a vital role in efforts to improve lake watersheds, and ultimately, lake quality. With their dedication and enthusiasm, volunteers in lake associations, watershed groups, and other environmental organizations are strengthening connections to local streams and lakes. These organizations are involved in a variety of activities, ranging from water quality monitoring and stream clean-ups to watershed restoration projects.

Volunteers also can support the programs of state and regional agencies. Well-trained volunteers can collect environmental data accurately, efficiently, and cost-effectively, as was demonstrated in the "First Great American Secchi Dip-in," (US EPA, 1995). During July 1994, 800 volunteers in six states collected lake transparency measurements and other data for lakes in the upper mid-West. Such activities add valuable information to water quality databases, encourage environmental awareness, and involve nonscientists in the protection of water resources.

To help identify citizen groups and other local organizations and agencies potentially interested in lakes and lake management, investigators compiled a list of "resources" in the Susquehanna River Basin. The list (Appendix B) includes 25 basinwide and regional organizations, and 112 groups/individuals listed by county. As many of the organizations are apparently not linked to a particular lake, these "resources" were sorted by county to give some geographic perspective to the list.

The list was compiled from a number of sources. Published sources include reports from the Alliance for the Chesapeake Bay and US EPA. Mailing lists were obtained from the Pennsylvania Lake Management Society (PALMS) and the Pa. DEP, as well as SRBC. Lists were screened for lake-specific, regional, and statewide groups. Investigators queried county conservation district personnel about grassroots organizations, and also asked local residents about lake associations and citizen groups during site visits.

The PALMS membership list from 1994 is interesting because it includes entries for nearly 350 organizations, agencies and individuals specifically concerned with Pennsylvania lakes. About 100 of these have ties to the Susquehanna basin, and include 10 state and federal agencies, 11 statewide organizations, 41 county conservation districts, and 9 county chapters of environmental organizations like the Audubon Society. Only five lake associations were identified for the entire Susquehanna basin.

WATERSHED ANALYSIS

Staff explored how a GIS could be used to assess watershed characteristics for the project in discussions with Dr. John Morgan of Towson State University and Scott Hoffman of the USGS.

SRBC contracted with Towson State University to: (1) digitize the significant and publicly-owned lakes and the drainage areas (watersheds) for the lakes; (2) prepare a database for the lakes of interest consisting of the lake number, lake name, lake area, lake perimeter, and the watershed area for each lake; (3) "overlay" the digitized lake watershed map with land use/land cover data and prepare a table for each lake watershed; and (4) assemble the lakes, lake watersheds, and land use/land cover data in both vector and raster formats for future GIS efforts.

To complete the above tasks, lakes and lake watersheds were digitized, and then converted to Arc/Info coverages. The lake database was developed in dBASE. The Arc/Info watershed coverage was used to "clip" the EMAP land cover coverage to prepare the land use data tables. Tables 5 and 6 indicate the distribution (acreage and percent, respectively) of watershed of land use/land cover for potentially significant, publicly-accessible lakes in the Susquehanna basin. Land use/land cover for subwatersheds is shown in Appendix C.

Data Sources

Lake data were digitized from standard paper 7 1/2 minute USGS topographic maps (1:24,000 scale) using microdigitization techniques in AutoCAD. These data were used to measure shoreline length (perimeter) and surface area.

Lake watersheds were developed from a GIS spatial data set of stream basin boundaries obtained from the USGS, called "Drainage basin boundaries for named streams." This data set is based on Pa. DER's publication, Pennsylvania Gazetteer of Streams (1989). For each lake, Commission staff drew the watershed boundary from the dam or lake outlet to the point of intersection with a stream drainage divide on standard paper 7 1/2 minute USGS topographic maps (1:24,000 scale). Stream drainage divides were checked against those traced on a set of topographic maps archived at the USGS office in Lemoyne, Pa. Staff at Towson State University digitized lines drawn by Commission staff, then joined them with the USGS drainage basin boundaries to create a new data set of lake watersheds.

In the several instances where reservoirs have been created by damming major streams, the watershed was intentionally truncated for purposes of this analysis. These lakes are noted on Tables 5 and 6. Land cover for the entire drainage area was not analyzed because nearby land uses probably have a more direct effect on water quality in lakes. The watershed was cut off at the confluence of the first third-order stream encountered above the reservoir along the major inflowing stream. The subwatershed of the third-order tributary and all upstream drainage areas were not included in land cover tabulations.

A GIS spatial data set of land use was obtained from the US EPA Chesapeake Bay Program. The EMAP 100K raster data set (US EPA, 1992) shows land use/land cover conditions in 1992. Land cover categories are: High Intensity Developed, Low Intensity Developed, Herbaceous, Woody, Exposed, and Water. The "Exposed" category includes land that has been disturbed exposing rock and land cleared of vegetation.

Table 5. ***Land Cover, by Acreage, for Potentially Significant, Publicly-Accessible Lakes in the Susquehanna River Basin***

Lake ID	Primary Name	County	Drainage Area (sq. m)	Acres Developed High Intsy	Acres Developed Low Intsy	Acres Herbaceous	Acres Woody	Acres Exposed	Acres Water	Acres Total
20	Shawnee Lake	Bedford	94,615,410.00	0.0	150.0	15,647.0	6,858.5	0.0	458.8	23.377.5
49	Canoe Creek Dam	Blair	43,346,370.00	0.0	17.5	9,350.1	1,178.7	0.0	162.9	10,709.2
79	Sunfish Pond	Bradford	621,291.20	0.0	0.0	107.0	11.1	0.0	35.1	153.2
81	Unnamed PA-RC&D-102	Bradford	5,719,563.00	0.0	0.0	785.2	629.0	0.0	1.2	1,415.4
89	Mountain Lake	Bradford	665,885.80	0.0	1.1	119.1	2.5	0.0	42.2	164.8
94	Stephen Foster Lake	Bradford	30,189,180.00	0.0	87.7	4,021.6	3,246.0	0.0	104.9	7,460.2
95	Lake Ondawa	Bradford	2,746,784.00	0.0	15.0	326.5	308.1	0.0	29.3	678.9
122	Glendale Lake	Cambria	108,392,500.00	0.0	240.6	20.301.6	4,580.1	11.0	1,649.3	26,782.6
128	George B. Stevenson Dam*	Cameron	109,254,400.00	0.0	47.3	25,832.6	794.3	0.0	321.5	26.995.7
134	Boy Scout Dam	Centre	3,107,192.00	0.0	41.5	713.7	13.6	0.0	0.0	768.8
137	Colyer Lake	Centre	21,739,650.00	0.0	0.0	5,091.1	199.8	0.0	81.4	5,372.4
147	Poe Valley Lake	Centre	12,890,710.00	0.0	0.0	3,156.0	9.0	0.0	21.5	3,186.4
159	Cold Stream Dam	Centre	54,737,020.00	0.0	105.6	12.793.1	500.8	111.0	14.4	13,524.9
165	Black Moshannon Lake	Centre	39,694,410.00	8.8	27.0	9,379.0	173.9	0.0	219.9	9,808.7
178	Foster J. Sayers Lake*	Centre	182,096,000.00	11.9	1.274.9	26,169.4	15,609.6	0.0	1,929.6	44,995.4
197	Goss Run Dam	Clearfield	1,991,397.00	0.0	14.8	314.7	142.7	19.5	0.0	491.7
199	Curwensville Reservoir*	Clearfield	43,240,110.00	0.0	248.3	8,623.0	679.2	212.8	921.9	10.685.3
211	Parker Lake	Clearfield	45,719,790.00	0.0	25.0	10,627.5	616.8	0.0	27.5	11,296.8
213	Shaggers Inn Waterfowl Dam	Clearfield	965,784.60	0.0	0.0	206.9	6.3	24.7	0.0	238.0
244	Alvin R. Bush Dam	Clinton	75,366,790.00	0.0	19.8	16.852.5	1,282.3	0.0	471.4	18,626.0
250	Briar Creek Reservoir	Columbia	13,490,180.00	0.0	4.5	1,854.5	1,426.9	0.0	45.9	3,331.7
264	Fuller Lake	Cumberland	59,028.47	0.0	0.0	9.1	0.0	0.0	5.3	14.4
266	Laurel Lake	Cumberland	60,777,220.00	0.0	5.9	14,319.1	665.5	0.0	29.0	15,019.5
272	Childrens Lake	Cumberland	8,523,232.00	7.6	337.3	95.6	1,658.4	0.0	5.4	2,104.2
280	Opossum Creek Dam	Cumberland	12,893,530.00	0.0	0.0	1,536.1	1,588.0	0.0	61.8	3,185.8
283	Doubling Gap Lake	Cumberland	8,257,907.00	0.0	0.0	1,975.6	65.3	0.0	0.0	2.040.9
319	Cowans Gap Lake	Fulton	13,626,170.00	0.0	2.2	3315.7	2.8	0.0	46.8	3367.4
321	Sinoquipe Lake	Fulton	14,900,340.00	0.0	0.2	3159.7	508.3	0.0	12.4	3680.5
326	Raystown Lake	Huntingdon	2,414,435,000.00	57.1	5.516.6	410,318.4	159.936.1	1,095.1	10,229.3	596.608.1
338	Greenwood Lake	Huntingdon	16,555,480.00	0.0	0.0	4,040.2	41.2	0.0	8.8	4,090.2

*Watershed intentionally truncated as described in text.

Table 5. Land Cover, by Acreage, for Potentially Significant, Publicly-Accessible Lakes in the Susquehanna River Basin—Continued

Lake ID	Primary Name	County	Drainage Area (sq. m)	Acres Developed High Intsy	Acres Developed Low Intsy	Acres Herbaceous	Acres Woody	Acres Exposed	Acres Water	Acres Total
340	Shaver Creek Dam	Huntingdon	19,371,350.00	0.0	0.0	4,571.3	145.0	0.0	73.4	4,789.7
341	Whipple Lake	Huntingdon	29,601,170.00	0.0	0.0	6,981.9	310.6	0.0	20.5	7,313.1
363	Pa. G&W Stark Reservoir	Lackawanna	2,639,553.00	0.0	33.1	559.5	46.9	2.6	8.8	651.0
367	Pa. G&W Elmhurst Reservoir*	Lackawanna	55,495,180.00	34.9	718.3	9,854.5	2,834.9	3.4	251.6	13,711.7
370	Pa. G&W Curtis Reservoir	Lackawanna	5,722,032.00	0.0	13.6	946.9	195.1	0.0	79.5	1,414.5
380	Pa. G&W Dunmore Res. #1	Lackawanna	7,204,896.00	0.0	5.7	1,720.6	33.7	0.0	19.9	1,779.9
399	Pa. G&W Summit Lake	Lackawanna	2,974,581.00	3.7	20.7	281.2	375.4	0.0	53.3	734.4
404	Ford Lake	Lackawanna	2,786,992.00	0.0	0.2	411.4	206.5	4.0	66.1	688.2
412	Pa. G&W Chapman Lake	Lackawanna	1,522,712.00	0.0	51.1	110.6	101.9	0.0	112.4	376.1
415	Lake Lackawanna	Lackawanna	118,078,600.00	0.0	853.9	15,830.9	11,895.8	2.5	597.1	29,180.1
419	Pa. G&W Carbondale Res. #4	Lackawanna	4,238,884.00	0.0	45.4	815.8	11.0	0.0	78.1	1,046.5
423	Merli-Sarnoski Park Lake	Lackawanna	709,485.00	0.0	4.2	141.8	0.8	0.0	28.0	174.7
427	Newton Lake	Lackawanna	2,565,765.00	0.0	38.9	287.3	146.6	0.0	160.8	633.5
430	Octoraro Lake	Lancaster	359,558,600.00	26.6	1,284.9	19,073.4	60,182.3	0.0	616.7	88,847.7
435	Muddy Run Rec. Reservoir	Lancaster	12,055,420.00	0.0	39.1	1,264.4	1,559.2	0.0	116.4	2,979.2
460	Speedwell Forge Lake	Lancaster	60,967,690.00	5.3	428.3	6,657.3	7,162.9	1.2	95.9	15,065.5
462	Middle Creek Dam	Lancaster	19,617,020.00	0.0	2.9	2,234.9	2,227.2	0.0	378.1	4,846.3
466	Mt. Gretna Lake	Lebanon	4,046,857.00	0.0	0.0	954.4	34.7	0.0	10.0	999.2
469	Rexmont #2	Lebanon	1,496,984.00	0.0	0.0	365.1	0.0	0.0	5.1	370.2
471	Rexmont #1	Lebanon	1,555,841.00	0.0	0.2	375.8	3.2	0.0	4.9	384.1
477	Stoevers Dam	Lebanon	2,891,452.00	7.9	138.1	37.7	517.2	0.0	13.1	714.0
479	Ebenezer Union Canal Dam	Lebanon	1,392,328.00	0.0	95.6	16.1	232.9	0.0	0.0	344.6
480	Memorial Lake	Lebanon	5,315,978.00	3.6	94.1	665.3	473.7	0.0	78.0	1,314.6
481	Marquette Lake	Lebanon	14,931,300.00	0.0	16.1	3,291.9	368.8	0.0	14.4	3,691.1
491	Lake Irena	Luzerne	3,547,881.00	66.4	122.9	524.6	134.5	16.7	11.3	876.4
495	Lake Francis	Luzerne	5,597,988.00	0.0	8.3	1,154.1	212.5	0.0	9.1	1,384.1
498	Lily Lake	Luzerne	6,175,569.00	0.0	2.8	1,288.8	107.2	0.0	128.6	1,527.4
524	Moon Lake	Luzerne	1,300,730.00	0.0	4.9	230.3	57.1	0.0	29.0	321.4
526	Sylvan Lake	Luzerne	4,040,297.00	0.0	10.0	577.3	294.5	0.0	118.1	1,000.0
527	Lake Silkworth	Luzerne	1,343,002.00	0.0	25.6	204.0	19.0	0.0	82.8	331.4
543	Harris Pond	Luzerne	1,269,425.00	0.0	0.0	229.3	52.5	0.0	31.4	313.2

*Watershed intentionally truncated as described in text.

Table 5. ***Land Cover, by Acreage, for Potentially Significant, Publicly-Accessible Lakes in the Susquehanna River Basin —Continued***

Lake ID	Primary Name	County	Drainage Area (sq. m)	Acres Developed High Intsy	Acres Developed Low Intsy	Acres Herbaceous	Acres Woody	Acres Exposed	Acres Water	Acres Total
548	Frances Slocum Lake	Luzerne	15,646,460.00	3.9	47.7	2,251.4	1,368.8	12.7	182.1	3,866.6
549	Lake Jean	Luzerne	7,754,549.00	6.2	21.6	1,161.9	412.2	0.0	314.9	1,916.8
550	Mountain Spring Lake	Luzerne	9,098,742.00	0.0	0.0	2,205.7	3.9	0.0	38.1	2,247.7
551	Harveys Lake	Luzerne	17,256,060.00	0.0	469.3	2,901.5	289.6	0.0	604.2	4,264.6
580	Little Pine Creek Dam*	Lycoming	104,093,000.00	0.0	25.9	22,757.2	2,566.3	179.0	191.7	25,720.2
581	Rose Valley Lake	Lycoming	8,698,942.00	0.0	0.0	1,204.6	529.7	0.0	414.2	2,148.6
591	Laurel Creek Reservoir	Mifflin	14,227,760.00	0.0	62.5	3,364.5	18.1	0.0	70.1	3,515.2
594	Lake Chillisquaque	Montour	14,254,860.00	0.0	20.8	1,181.6	2,150.7	1.2	167.6	3,522.0
600	Zerbe Township R G C Pond	Northumberland	5,645,805.00	4.3	110.9	1,242.2	38.5	0.0	0.0	1,395.8
626	Holman Lake (Little Buffalo Lake)	Perry	34,694,960.00	0.0	0.0	4,891.9	3,576.5	0.0	104.7	8,573.1
642	Sweet Arrow Lake	Schuylkill	52,752,440.00	0.0	218.2	6,267.8	6,480.5	0.0	69.3	13,035.8
688	Park Place Dam No. 3	Schuylkill	704,261.30	0.0	0.0	54.5	0.0	0.0	0.0	174.4
702	Lofty Messer's Run	Schuylkill	3,325,119.00	0.0	0.0	0.5	0.0	0.0	0.0	820.2
718	C.F. Walker Lake	Snyder	47,958,020.00	0.0	2.3	6,823.2	4,757.2	0.0	268.4	11,851.1
724	Hunters Lake	Sullivan	3,187,274.00	0.0	4.3	650.7	19.0	0.0	113.4	787.3
726	Lopez Pond	Sullivan	1,455,111.00	0.0	0.0	249.7	95.9	0.0	14.1	359.7
730	Shumans Lake	Sullivan	1,3948,300.00	0.0	0.0	2,912.7	494.8	0.0	39.2	3,446.8
731	Sones Pond	Sullivan	1,222,869.00	0.0	0.0	257.1	32.9	0.0	13.0	303.0
734	Bear Wallow Pond	Sullivan	2,084,676.00	0.0	0.0	417.0	76.1	0.0	21.9	515.1
744	Horton Lake Dam	Susquehanna	1,267,300.00	0.0	0.0	167.9	106.4	0.0	39.7	314.0
745	Tuscarora Lake	Susquehanna	2,661,609.00	0.0	0.0	413.0	190.0	0.0	54.1	657.0
756	Lower Alford Lake	Susquehanna	13,752,620.00	0.0	20.7	2,434.0	860.5	0.0	84.2	3,399.4
763	Lake Montrose	Susquehanna	2,170,516.00	0.0	138.1	184.7	160.0	0.0	53.1	535.9
773	Star Lake Dam	Susquehanna	2,406,048.00	0.0	10.0	314.1	197.5	0.0	72.9	594.6
786	Quaker Lake	Susquehanna	3,669,657.00	0.0	35.8	449.4	280.9	0.0	138.8	905.0
795	Lake Nessmuk	Tioga	4,364,558.00	0.0	27.0	435.8	557.4	0.0	58.8	1,079.1
798	Hamilton Lake	Tioga	21,771,410.00	0.0	53.4	3,118.9	2,149.7	0.0	58.2	5,380.2
803	Hills Creek Lake	Tioga	9,383,731.00	0.0	31.8	1,579.2	541.8	0.0	167.1	2,319.8
809	Beechwood Lake	Tioga	8,838,867.00	0.0	69.3	1,074.0	960.0	0.0	81.2	2184.6
810	Hammond Lake*	Tioga	51,549,510.00	0.0	321.7	10,204.5	1,514.3	0.0	697.1	12,737.6
813	Cowanesque Reservoir*	Tioga	4,8127,910.00	0.0	320.6	7,868.6	3,278.6	0.0	422.7	11,890.5

*Watershed intentionally truncated as described in text.

Table 5. Land Cover, by Acreage, for Potentially Significant, Publicly-Accessible Lakes in the Susquehanna River Basin —Continued

Lake ID	Primary Name	County	Drainage Area (sq. m)	Acres Developed High Intsy	Acres Developed Low Intsy	Acres Herbaceous	Acres Woody	Acres Exposed	Acres Water	Acres Total
815	Eldridge Pond Dam	Tioga	730,029.80	0.0	2.5	102.2	68.1	0.0	7.7	180.5
833	Lake Winola	Wyoming	4,186,793.00	0.0	104.7	419.3	314.1	0.0	195.7	1,033.8
843	Lake Carey	Wyoming	12,982,510.00	0.0	43.9	1,642.2	1,198.1	0.0	323.2	3,207.4
845	Stevens Lake Dam	Wyoming	4,078,070.00	0.0	0.0	372.5	553.1	0.0	81.2	1,006.8
849	Sheppard Myers Reservoir	York	14,915,410.00	0.0	74.1	2,125.3	1,423.5	0.0	62.2	3,685.1
852	Long Arm Reservoir	York	14,412,030.00	0.0	1.7	720.6	2,576.4	0.0	264.1	3,562.8
860	Lake Marburg	York	60,131,940.00	0.0	186.7	4,751.2	8,643.1	0.0	1,277.4	14,858.4
869	Lake Williams	York	3,860,154.00	0.0	140.5	399.2	189.2	0.0	225.5	954.4
872	Lake Redman	York	102,460,700.00	7.1	1,330.5	7,718.9	15,946.0	30.4	285.7	25,318.6
890	Conewago Lake	York	45,508,710.00	0.0	173.7	8,119.4	2,522.0	0.0	427.6	11,242.8
901	Stacey Pond	Bradford	203,140.50	0.0	0.0	37.5	1.9	0.0	10.8	50.2
905	Unnamed (Wrisleys Lake)	Bradford	664,805.60	0.0	0.0	135.9	13.1	0.0	15.3	164.3
906	Unnamed	Bradford	780,572.40	0.0	0.0	171.7	8.2	0.0	12.7	192.6
910	Unnamed (Brownings Pond)	Bradford	1,016,082.00	0.0	0.0	25.6	196.9	0.0	27.3	249.9
914	Chillson Pond	Bradford	946,631.40	0.0	0.0	73.4	141.9	3.1	15.8	234.1
915	Rockwell Pond	Bradford	1,439,220.00	0.0	0.0	205.6	121.2	3.4	25.6	355.8
924	Haig Pond	Bradford	1,898,148.00	0.0	0.0	183.3	249.4	0.0	36.6	469.3
927	Aekleys Pond	Bradford	70,477,00.00	0.0	0.0	958.6	764.5	0.0	17.9	1,741.0
930	Cash Pond	Bradford	827,656.60	0.0	0.0	160.3	33.4	0.0	10.2	203.9
931	Unnamed (Allen's Lake)	Bradford	6,149,24.40	0.0	0.0	105.2	16.5	0.0	30.1	151.8
934	Balsam Pond	Bradford	1,623,192.00	0.0	0.0	138.7	230.3	0.0	32.3	401.2
938	Unnamed	Bradford	1,925,015.00	0.0	7.3	303.8	124.6	0.0	40.0	475.7
946	Wildwood Lake	Dauphin	20,409,090.00	222.1	1,231.0	2,048.2	1,541.8	0.0	0.0	5,043.1
974	Nuangola Lake	Luzerne	3,453,467.00	0.0	48.5	649.9	68.1	0.0	88.5	855.0
979	Splashdam Pond	Sullivan	21,564,620.00	7.9	67.2	4,322.9	855.1	0.0	76.0	5,329.1
980	Lake John	Sullivan	3,308,426.00	0.0	0.5	693.0	23.9	0.0	99.8	817.1
984	Pine Marsh	Sullivan	3,253,893.00	0.0	0.0	781.2	21.5	0.0	0.0	802.6
998	Stillwater Lake	Susquehanna	87,856,700.00	0.0	199.2	14,294.7	6,583.6	0.0	634.6	21,712.1
999	Unnamed (Lake Erie)	Susquehanna	19,177,05.00	0.0	9.9	378.7	54.8	29.0	0.0	472.4
1011	Polk Pond	Susquehanna	853,507.30	0.0	10.2	118.3	76.8	0.0	6.2	211.4
1022	Unnamed (Cozy Lake)	Susquehanna	285,868.30	0.0	0.0	16.2	39.4	0.0	15.4	71.0
1048	Dunn Pond	Susquehanna	4,143,603.00	0.0	3.2	743.9	160.9	0.0	116.4	1,024.6
1049	Unnamed (Lake Larue)	Susquehanna	1,608,583.00	0.0	0.0	154.9	215.8	0.0	26.9	397.5
1057	Unnamed	Susquehanna	1,626,770.00	0.0	0.0	357.8	22.5	0.0	22.4	402.8

Table 5. Land Cover, by Acreage, for Potentially Significant, Publicly-Accessible Lakes in the Susquehanna River Basin —Continued

Lake ID	Primary Name	County	Drainage Area (sq. m)	Acres Developed High Intsy	Acres Developed Low Intsy	Acres Herbaceous	Acres Woody	Acres Exposed	Acres Water	Acres Total
1109	Lakeside Pond	Susquehanna	6,122,628.00	0.0	0.0	687.1	730.2	0.0	95.3	1,512.6
1128	Mud Pond (Swimming Dam)	Bradford	929,893.60	0.0	0.0	163.9	24.9	0.0	41.1	229.8
1130	Black Pond	Bradford	2,818,666.00	0.0	0.0	177.0	497.5	0.0	21.8	696.2
1131	Unnamed (PA-RC&D-103)	Bradford	882,304.30	0.0	0.0	77.5	120.0	0.0	20.8	218.4
1150	Kast Pond	Sullivan	6,157,810.00	0.0	46.6	794.4	663.9	0.0	16.5	1,521.5
1154	Gephart Dam	Sullivan	487,519.80	0.0	0.0	85.6	19.3	0.0	15.3	120.2
1156	Seeleyville Dam	Sullivan	1,253,620.00	0.0	0.0	253.9	47.1	0.0	8.6	309.7
1170	Tyrone Sportsman Club	Blair	14,085,65.00	0.0	0.0	307.5	37.8	0.0	2.0	347.3
1171	Halfway Lake	Union	13,694,450.00	0.0	59.0	3,294.4	31.4	0.0	0.0	3,384.7
	TOTAL			**485.1**	**17,994.9**	**841,011.1**	**373,558.1**	**1,763.4**	**29,517.4**	**1,283,659.5**

Table 6. Land Cover, by Percentage, for Potentially Significant, Publicly-Accessible Lakes in the Susquehanna River Basin

Lake ID	Primary Name	County	Drainage Area (sq. m)	Percent Unknown	Percent Developed High Intsy	Percent Developed Low Intsy	Percent Herbaceous	Percent Woody	Percent Exposed	Percent Water	Percent Total
20	Shawnee Lake	Bedford	94,615,410.00	1.13	0.00	0.64	66.93	29.34	0.00	1.96	100.00
49	Canoe Creek Dam	Blair	43,346,370.00	0.00	0.00	0.16	87.31	11.01	0.00	1.52	100.00
79	Sunfish Pond	Bradford	621,291.20	0.00	0.00	0.00	69.86	7.26	0.00	22.88	100.00
81	Unnamed PA-RC&D-102	Bradford	5,719,563.00	0.00	0.00	0.00	55.47	44.44	0.00	0.09	100.00
89	Mountain Lake	Bradford	665,885.80	0.00	0.00	0.66	72.26	1.50	0.00	25.59	100.00
94	Stephen Foster Lake	Bradford	30,189,180.00	0.00	0.00	1.18	53.91	43.51	0.00	1.41	100.00
95	Lake Ondawa	Bradford	2,746,784.00	0.00	0.00	2.21	48.09	45.38	0.00	4.32	100.00
122	Glendale Lake	Cambria	108,392,500.00	0.00	0.00	0.90	75.80	17.10	0.04	6.16	100.00
128	George B. Stevenson Dam*	Cameron	109,254,400.00	0.00	0.00	0.18	95.69	2.94	0.00	1.19	100.00
134	Boy Scout Dam	Centre	3,107,192.00	0.00	0.00	5.40	92.83	1.77	0.00	0.00	100.00
137	Colyer Lake	Centre	21,739,650.00	0.00	0.00	0.00	94.77	3.72	0.00	1.51	100.00
147	Poe Valley Lake	Centre	12,890,710.00	0.00	0.00	0.00	99.05	0.28	0.00	0.67	100.00
159	Cold Stream Dam	Centre	54,737,020.00	0.00	0.00	0.78	94.59	3.70	0.82	0.11	100.00
165	Black Moshannon Lake	Centre	39,694,410.00	0.00	0.09	0.28	95.62	1.77	0.00	2.24	100.00
178	Foster J. Sayers Lake*	Centre	182,096,000.00	0.00	0.03	2.83	58.16	34.69	0.00	4.29	100.00
197	Goss Run Dam	Clearfield	1,991,397.00	0.00	0.00	3.02	64.01	29.02	3.96	0.00	100.00
199	Curwensville Reservoir*	Clearfield	43,240,110.00	0.00	0.00	2.32	80.70	6.36	1.99	8.63	100.00
211	Parker Lake	Clearfield	45,719,790.00	0.00	0.00	0.22	94.07	5.46	0.00	0.24	100.00
213	Shaggers Inn Waterfowl Dam	Clearfield	965,784.60	0.00	0.00	0.00	86.96	2.66	10.38	0.00	100.00
244	Alvin R. Bush Dam	Clinton	75,366,790.00	0.00	0.00	0.11	90.48	6.88	0.00	2.53	100.00
250	Briar Creek Reservoir	Columbia	13,490,180.00	0.00	0.00	0.13	55.66	42.83	0.00	1.38	100.00
264	Fuller Lake	Cumberland	59,028.47	0.00	0.00	0.00	63.44	0.00	0.00	36.56	100.00
266	Laurel Lake	Cumberland	60,777,220.00	0.00	0.00	0.04	95.34	4.43	0.00	0.19	100.00
272	Childrens Lake	Cumberland	8,523,232.00	0.00	0.36	16.03	4.54	78.81	0.00	0.26	100.00
280	Opossum Creek Dam	Cumberland	12,893,530.00	0.00	0.00	0.00	48.22	49.84	0.00	1.94	100.00
283	Doubling Gap Lake	Cumberland	8,257,907.00	0.00	0.00	0.00	96.80	3.20	0.00	0.00	100.00
319	Cowans Gap Lake	Fulton	13,626,170.00	0.00	0.00	0.06	98.46	0.08	0.00	1.39	100.00
321	Sinoquipe Lake	Fulton	14,900,340.00	0.00	0.00	0.00	85.85	13.81	0.00	0.34	100.00
326	Raystown Lake	Huntingdon	2,414,435,000.00	1.58	0.01	0.92	68.78	26.81	0.18	1.71	100.00
338	Greenwood Lake	Huntingdon	16,555,480.00	0.00	0.00	0.00	98.78	1.01	0.00	0.22	100.00
340	Shaver Creek Dam	Huntingdon	19,371,350.00	0.00	0.00	0.00	95.44	3.03	0.00	1.53	100.00
341	Whipple Lake	Huntingdon	29,601,170.00	0.00	0.00	0.00	95.47	4.25	0.00	0.28	100.00

*Watershed intentionally truncated as described in text.

Table 6. ***Land Cover, by Percentage, for Potentially Significant, Publicly-Accessible Lakes in the Susquehanna River Basin—Continued***

Lake ID	Primary Name	County	Drainage Area (sq. m)	Percent Unknown	Percent Developed High Intsy	Percent Developed Low Intsy	Percent Herbaceous	Percent Woody	Percent Exposed	Percent Water	Percent Total
363	Pa. G&W Stark Reservoir	Lackawanna	2,639,553.00	0.00	0.00	5.08	85.95	7.21	0.40	1.35	100.00
367	Pa. G&W Elmhurst Reservoir*	Lackawanna	55,495,180.00	0.10	0.25	5.24	71.87	20.68	0.02	1.83	100.00
370	Pa. G&W Curtis Reservoir	Lackawanna	5,722,032.00	12.69	0.00	0.96	66.94	13.79	0.00	5.62	100.00
380	Pa. G&W Dunmore Res. #1	Lackawanna	7,204,896.00	0.00	0.00	0.32	96.67	1.89	0.00	1.12	100.00
399	Pa. G&W Summit Lake	Lackawanna	2,974,581.00	0.00	0.50	2.82	38.30	51.13	0.00	7.26	100.00
404	Ford Lake	Lackawanna	2,786,992.00	0.00	0.00	0.02	59.78	30.00	0.58	9.61	100.00
412	Pa. G&W Chapman Lake	Lackawanna	1,522,712.00	0.00	0.00	13.59	29.40	27.10	0.00	29.90	100.00
415	Lake Lackawanna	Lackawanna	118,078,600.00	0.00	0.00	2.92	54.25	40.77	0.01	2.05	100.00
419	Pa. G&W Carbondale Res. #4	Lackawanna	4,238,884.00	9.19	0.00	4.34	77.95	1.05	0.00	7.47	100.00
423	Merli-Sarnoski Park Lake	Lackawanna	709,485.00	0.00	0.00	2.39	81.17	0.44	0.00	16.00	100.00
427	Newton Lake	Lackawanna	2,565,765.00	0.00	0.00	6.14	45.34	23.14	0.00	25.38	100.00
430	Octoraro Lake	Lancaster	359,558,600.00	8.63	0.03	1.45	21.47	67.74	0.00	0.69	100.00
435	Muddy Run Rec. Reservoir	Lancaster	12,055,420.00	0.00	0.00	1.31	42.44	52.34	0.00	3.91	100.00
460	Speedwell Forge Lake	Lancaster	60,967,690.00	4.74	0.03	2.84	44.19	47.55	0.01	0.64	100.00
462	Middle Creek Dam	Lancaster	19,617,020.00	0.07	0.00	0.06	46.12	45.96	0.00	7.80	100.00
466	Mt. Gretna Lake	Lebanon	4,046,857.00	0.00	0.00	0.00	95.52	3.48	0.00	1.00	100.00
469	Rexmont #2	Lebanon	1,496,984.00	0.00	0.00	0.00	98.62	0.00	0.00	1.38	100.00
471	Rexmont #1	Lebanon	1,555,841.00	0.00	0.00	0.04	97.83	0.84	0.00	1.29	100.00
477	Stoevers Dam	Lebanon	2,891,452.00	0.00	1.10	19.34	5.28	72.44	0.00	1.84	100.00
479	Ebenezer Union Canal Dam	Lebanon	1,392,328.00	0.00	0.00	27.75	4.66	67.59	0.00	0.00	100.00
480	Memorial Lake	Lebanon	5,315,978.00	0.00	0.27	7.15	50.61	36.03	0.00	5.93	100.00
481	Marquette Lake	Lebanon	14,931,300.00	0.00	0.00	0.44	89.18	9.99	0.00	0.39	100.00
491	Lake Irena	Luzerne	3,547,881.00	0.00	7.58	14.03	59.86	15.35	1.90	1.29	100.00
495	Lake Francis	Luzerne	5,597,988.00	0.00	0.00	0.60	83.39	15.35	0.00	0.66	100.00
498	Lily Lake	Luzerne	6,175,569.00	0.00	0.00	0.18	84.38	7.02	0.00	8.42	100.00
524	Moon Lake	Luzerne	1,300,730.00	0.00	0.00	1.54	71.65	17.78	0.00	9.03	100.00
526	Sylvan Lake	Luzerne	4,040,297.00	0.00	0.00	1.00	57.73	29.45	0.00	11.81	100.00
527	Lake Silkworth	Luzerne	1,343,002.00	0.00	0.00	7.74	61.56	5.73	0.00	24.98	100.00
543	Harris Pond	Luzerne	1,269,425.00	0.00	0.00	0.00	73.22	16.77	0.00	10.01	100.00
548	Frances Slocum Lake	Luzerne	15,646,460.00	0.00	0.10	1.23	58.23	35.40	0.33	4.71	100.00
549	Lake Jean	Luzerne	7,754,549.00	0.00	0.32	1.13	60.62	21.51	0.00	16.43	100.00
550	Mountain Spring Lake	Luzerne	9,098,742.00	0.00	0.00	0.00	98.13	0.17	0.00	1.70	100.00

*Watershed intentionally truncated as described in text.

Table 6. Land Cover, by Percentage, for Potentially Significant, Publicly-Accessible Lakes in the Susquehanna River Basin—Continued

Lake ID	Primary Name	County	Drainage Area (sq. m)	Percent Unknown	Percent Developed High Intsy	Percent Developed Low Intsy	Percent Herbaceous	Percent Woody	Percent Exposed	Percent Water	Percent Total
551	Harveys Lake	Luzerne	17,256,060.00	0.00	0.00	11.01	68.04	6.79	0.00	14.17	100.00
580	Little Pine Creek Dam*	Lycoming	104,093,000.00	0.00	0.00	0.10	88.48	9.98	0.70	0.75	100.00
581	Rose Valley Lake	Lycoming	8,698,942.00	0.00	0.00	0.00	56.07	24.65	0.00	19.28	100.00
591	Laurel Creek Reservoir	Mifflin	14,227,760.00	0.00	0.00	1.78	95.71	0.51	0.00	1.99	100.00
594	Lake Chillisquaque	Montour	14,254,860.00	0.00	0.00	0.59	33.55	61.07	0.04	4.76	100.00
600	Zerbe Township R G C Pond	Northumberland	5,645,805.00	0.00	0.31	7.94	88.99	2.76	0.00	0.00	100.00
626	Holman Lake (Little Buffalo Lake)	Perry	34,694,960.00	0.00	0.00	0.00	57.06	41.72	0.00	1.22	100.00
642	Sweet Arrow Lake	Schuylkill	52,752,440.00	0.00	0.00	1.67	48.08	49.71	0.00	0.53	100.00
688	Park Place Dam No. 3	Schuylkill	704,261.30	68.73	0.00	0.00	31.27	0.00	0.00	0.00	100.00
702	Lofty Messers Run	Schuylkill	3,325,119.00	99.94	0.00	0.00	0.06	0.00	0.00	0.00	100.00
718	C F Walker Lake	Snyder	47,958,020.00	0.00	0.00	0.02	57.57	40.14	0.00	2.26	100.00
724	Hunters Lake	Sullivan	3,187,274.00	0.00	0.00	0.55	82.64	2.41	0.00	14.40	100.00
726	Lopez Pond	Sullivan	1,455,111.00	0.00	0.00	0.00	69.43	26.66	0.00	3.91	100.00
730	Shumans Lake	Sullivan	13,948,300.00	0.00	0.00	0.00	84.51	14.36	0.00	1.14	100.00
731	Sones Pond	Sullivan	1,222,869.00	0.00	0.00	0.00	84.86	10.86	0.00	4.28	100.00
734	Bear Wallow Pond	Sullivan	2,084,676.00	0.00	0.00	0.00	80.96	14.78	0.00	4.26	100.00
744	Horton Lake Dam	Susquehanna	1,267,300.00	0.00	0.00	0.00	53.47	33.89	0.00	12.64	100.00
745	Tuscarora Lake	Susquehanna	2,661,609.00	0.00	0.00	0.00	62.86	28.91	0.00	8.23	100.00
756	Lower Alford Lake	Susquehanna	13,752,620.00	0.00	0.00	0.61	71.60	25.31	0.00	2.48	100.00
763	Lake Montrose	Susquehanna	2,170,516.00	0.00	0.00	25.76	34.47	29.86	0.00	9.91	100.00
773	Star Lake Dm	Susquehanna	2,406,048.00	0.00	0.00	1.69	52.83	33.22	0.00	12.26	100.00
786	Quaker Lake	Susquehanna	3,669,657.00	0.00	0.00	3.96	49.66	31.04	0.00	15.34	100.00
795	Lake Nessmuk	Tioga	4,364,558.00	0.00	0.00	2.50	40.39	51.65	0.00	5.45	100.00
798	Hamilton Lake	Tioga	21,771,410.00	0.00	0.00	0.99	57.97	39.95	0.00	1.08	100.00
803	Hills Creek Lake	Tioga	9,383,731.00	0.00	0.00	1.37	68.07	23.35	0.00	7.20	100.00
809	Beechwood Lake	Tioga	8,838,867.00	0.00	0.00	3.17	49.16	43.94	0.00	3.72	100.00
810	Hammond Lake*	Tioga	51,549,510.00	0.00	0.00	2.53	80.11	11.89	0.00	5.47	100.00
813	Cowanesque Reservoir*	Tioga	48,127,910.00	0.00	0.00	2.70	66.18	27.57	0.00	3.55	100.00
815	Eldridge Pond Dam	Tioga	730,029.80	0.00	0.00	1.37	56.63	37.72	0.00	4.28	100.00
833	Lake Winola	Wyoming	4,186,793.00	0.00	0.00	10.13	40.56	30.39	0.00	18.93	100.00
843	Lake Carey	Wyoming	12,982,510.00	0.00	0.00	1.37	51.20	37.36	0.00	10.08	100.00

*Watershed intentionally truncated as described in text.

Table 6. ***Land Cover, by Percentage, for Potentially Significant, Publicly-Accessible Lakes in the Susquehanna River Basin—Continued***

Lake ID	Primary Name	County	Drainage Area (sq. m)	Percent Unknown	Percent Developed High Intsy	Percent Developed Low Intsy	Percent Herbaceous	Percent Woody	Percent Exposed	Percent Water	Percent Total
845	Stevens Lake Dam	Wyoming	4,078,070.00	0.00	0.00	0.00	37.00	54.93	0.00	8.07	100.00
849	Sheppard Myers Reservoir	York	14,915,410.00	0.00	0.00	2.01	57.67	38.63	0.00	1.69	100.00
852	Long Arm Reservoir	York	14,412,030.00	0.00	0.00	0.05	20.23	72.31	0.00	7.41	100.00
860	Lake Marburg	York	60,131,940.00	0.00	0.00	1.26	31.98	58.17	0.00	8.60	100.00
869	Lake Williams	York	3,860,154.00	0.00	0.00	14.72	41.83	19.82	0.00	23.62	100.00
872	Lake Redman	York	102,460,700.00	0.00	0.03	5.26	30.49	62.98	0.12	1.13	100.00
890	Conewago Lake	York	45,508,710.00	0.00	0.00	1.55	72.22	22.43	0.00	3.80	100.00
901	Stacey Pond	Bradford	203,140.50	0.00	0.00	0.00	74.77	3.69	0.00	21.54	100.00
905	Unnamed (Wrisleys Lake)	Bradford	664,805.60	0.00	0.00	0.00	82.71	7.99	0.00	9.30	100.00
906	Unnamed	Bradford	780,572.40	0.00	0.00	0.00	89.17	4.25	0.00	6.58	100.00
910	Unnamed (Brownings Pond)	Bradford	1,016,082.00	0.00	0.00	0.00	10.26	78.80	0.00	10.94	100.00
914	Chillson Pond	Bradford	946,631.40	0.00	0.00	0.00	31.33	60.62	1.32	6.73	100.00
915	Rockwell Pond	Bradford	1,439,220.00	0.00	0.00	0.00	57.77	34.07	0.95	7.20	100.00
924	Haig Pond	Bradford	1,898,148.00	0.00	0.00	0.00	39.06	53.14	0.00	7.80	100.00
927	Ackleys Pond	Bradford	7,047,700.00	0.00	0.00	0.00	55.06	43.91	0.00	1.03	100.00
930	Cash Pond	Bradford	827,656.6.00	0.00	0.00	0.00	78.64	16.36	0.00	5.00	100.00
931	Unnamed (Allen's Lake)	Bradford	614,924.40	0.00	0.00	0.00	69.28	10.89	0.00	19.84	100.00
934	Balsam Pond	Bradford	1,623,192.00	0.00	0.00	0.00	34.57	57.39	0.00	8.04	100.00
938	Unnamed	Bradford	1,925,015.00	0.00	0.00	1.53	63.86	26.20	0.00	8.41	100.00
946	Wildwood Lake	Dauphin	20,409,090.00	0.00	4.40	24.41	40.61	30.57	0.00	0.00	100.00
974	Nuangola Lake	Luzerne	3,453,467.00	0.00	0.00	5.67	76.01	7.97	0.00	10.35	100.00
979	Splashdam Pond	Sullivan	21,564,620.00	0.00	0.15	1.26	81.12	16.05	0.00	1.43	100.00
980	Lake John	Sullivan	3,308,426.00	0.00	0.00	0.06	84.80	2.93	0.00	12.21	100.00
984	Pine Marsh	Sullivan	3,253,893.00	0.00	0.00	0.00	97.33	2.67	0.00	0.00	100.00
998	Stillwater Lake	Susquehanna	87,856,700.00	0.00	0.00	0.92	65.84	30.32	0.00	2.92	100.00
999	Unnamed (Lake Erie)	Susquehanna	1,917,705.00	0.00	0.00	2.09	80.16	11.61	6.15	0.00	100.00
1011	Polk Pond	Susquehanna	853,507.30	0.00	0.00	4.82	55.95	36.30	0.00	2.92	100.00
1022	Unnamed (Cozy Lake)	Susquehanna	285,868.30	0.00	0.00	0.00	22.83	55.43	0.00	21.74	100.00
1048	Dunn Pond	Susquehanna	4,143,603.00	0.00	0.00	0.32	72.61	15.71	0.00	11.37	100.00
1049	Unnamed (Lake Larue)	Susquehanna	1,608,583.00	0.00	0.00	0.00	38.97	54.27	0.00	6.76	100.00
1057	Unnamed	Susquehanna	1,626,770.00	0.00	0.00	0.00	88.84	5.60	0.00	5.56	100.00
1109	Lakeside Pond	Susquehanna	6,122,628.00	0.00	0.00	0.00	45.43	48.27	0.00	6.30	100.00
1128	Mud Pond (Swimming Dam)	Bradford	929,893.60	0.00	0.00	0.00	71.30	10.82	0.00	17.88	100.00

Table 6. Land Cover, by Percentage, for Potentially Significant, Publicly-Accessible Lakes in the Susquehanna River Basin—Continued

Lake ID	Primary Name	County	Drainage Area (sq. m)	Percent Unknown	Percent Developed High Intsy	Percent Developed Low Intsy	Percent Herbaceous	Percent Woody	Percent Exposed	Percent Water	Percent Total
1130	Black Pond	Bradford	2,818,666.00	0.00	0.00	0.00	25.42	71.45	0.00	3.13	100.00
1131	Unnamed PA-RC&D-103	Bradford	882,304.30	0.00	0.00	0.00	35.50	54.95	0.00	9.55	100.00
1150	Kast Pond	Sullivan	6,157,810.00	0.00	0.00	3.07	52.21	43.64	0.00	1.09	100.00
1154	Gephart Dam	Sullivan	487,519.80	0.00	0.00	0.00	71.21	16.07	0.00	12.72	100.00
1156	Seeleyville Dam	Sullivan	1,253,620.00	0.00	0.00	0.00	82.00	15.21	0.00	2.79	100.00
1170	Tyrone Sportsman Club	Blair	1,408,565.00	0.00	0.00	0.00	88.53	10.89	0.00	0.58	100.00
1171	Halfway Lake	Union	13,694,450.00	0.00	0.00	1.74	97.33	0.93	0.00	0.00	100.00

Conclusions and Recommendations

The inventory process resulted in a list of 135 publicly-owned lakes in the Susquehanna River Basin that are potentially significant. For about half of these lakes, detention time is unknown. The next step might be to establish average depths for these lakes, which then could be used with the lake surface areas and drainage areas determined as a part of this project to calculate storage volumes and, ultimately, detention times. Publicly-owned significant lakes in the Susquehanna River Basin could then be prioritized for further investigation.

As an alternative, the same inventory and assessment techniques could be used elsewhere in Pennsylvania. This would expand the list of potentially significant lakes statewide.

However, as this project has demonstrated, conducting an inventory of significant lakes requires diligent and resource-intensive effort. The process is difficult, not only because of the large population of potentially significant lakes, but also because of the nature of the definition. Pennsylvania's definition hinges on knowing detention time, which may be valuable as a management tool, but requires information on lake volume. Accurate calculation of volume probably should entail verification of average depth of a lake. The PFBC recommends determining average depth by taking at least 30 soundings or fathometer readings on transects or a grid pattern over all of the lake surface.

To further complicate the inventory process, determining public access to privately-owned lakes is problematic in several respects, as described under inventory methodology. Among other factors, because public accessibility could be rescinded at any time without any notification to state agencies, a list of significant lakes becomes a "moving target" of sorts and difficult to update. A designation of "significant" for privately-owned lakes confers no permanence.

If maintenance of a comprehensive list of significant lakes is important to Pa. DEP's program needs, the responsible bureau, BLWC, may wish to consider changing the definition of "significant." A definition that is simpler to implement during initial screening, and one that would allow that screening to be carried out in an office setting, could substantially speed up the inventory process for the remainder of Pennsylvania. A second consideration about the current definition is whether a strict threshold represented by a 14-day detention time is adequate for determining a lake's significance. What if the detention time is only 13 days? Is it possible such a lake should be managed as if it were "significant"?

Proposing a new definition is clearly beyond the intended scope of this project. However, such a designation could be based on some physical characteristic that could be determined from maps or satellite imagery. Research into how other states define significance also may be valuable; for example, Maryland uses surface area of a lake. Lake hydraulics, lake use or function, pollution problems, and potential for remediation could be addressed in a prioritization plan.

LAKE MONITORING

Description of the Lakes

Figure 1 shows the location of the lakes that were monitored and their locations. Pa. DEP selected these lakes for the original study (Ulanoski and others, 1981) based on evaluation of the following criteria:

- Advanced condition of eutrophication or other problems indicated through water quality analysis, abundance of vascular hydrophytes and recurring algal blooms;
- High levels of public recreational use;
- Relative size of the lake; and
- Reasonable potential for the successful implementation of lake restoration procedures.

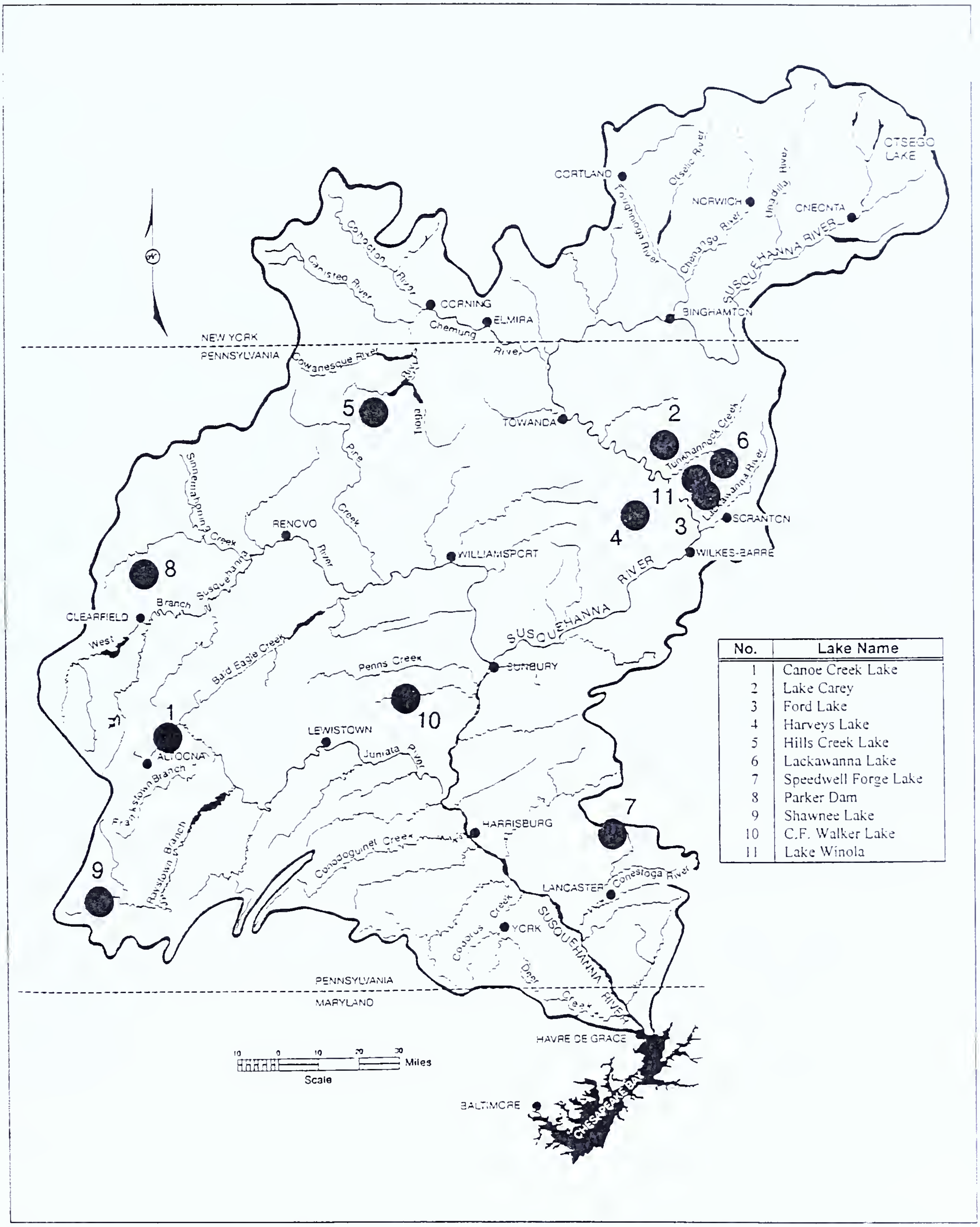
These lakes continue to be among the most important lakes in the Susquehanna River Basin in Pennsylvania. Harveys Lake was the subject of a Phase I assessment through the US EPA Clean Lakes Program (Coastal Environmental Services, Inc., 1994), and was not sampled during this project. Project investigators revisited the other lakes and the sites previously sampled by Pa. DER in the 1981 study. Each lake was sampled three times during the period April through September 1995 to update physical-chemical data. Investigators also noted any changes in the physical characteristics of the lake and the drainage basin since the time of the previous survey, including the available recreational facilities and potential sources of pollution. Recent data for Harveys Lake are included to make the comparative data set complete.

One sampling site was selected in the deepest part of each lake, which is usually near the outlet and reflects composite effects. One or more additional sites in other areas of a lake were sampled, where necessary, to obtain a representative characterization of physical and chemical parameters. Field surveys included *in situ* measurements of temperature, dissolved oxygen, pH, and specific conductance; visibility determinations; and collection of water samples and chlorophyll *a* samples. The data were used to evaluate trophic conditions and identify any water quality trends in the lakes.

Sample Collection and Analysis

Grab samples of water for chemical analysis were collected from each lake in accordance with procedures prescribed in the *Quality Assurance/Quality Control Plan for the Lake Assessment Project, Susquehanna River Basin.* Samples were collected in spring, prior to thermal stratification; in early summer, during thermal stratification; and in late summer, prior to fall turnover.

Temperature, pH, specific conductance, dissolved oxygen, and Secchi depth at each sampling site were determined at the time of sample collection. Filtered and unfiltered water samples were collected and analyzed for physical characteristics and the constituents listed in Table 7. Grab samples were collected in new polyethylene bottles, preserved, and taken to the Pa. DEP central laboratory for analysis.



No.	Lake Name
1	Canoe Creek Lake
2	Lake Carey
3	Ford Lake
4	Harveys Lake
5	Hills Creek Lake
6	Lackawanna Lake
7	Speedwell Forge Lake
8	Parker Dam
9	Shawnee Lake
10	C.F. Walker Lake
11	Lake Winola

Figure 1. Map of Monitored Lakes

Table 7. Monitored Parameters for the Ten Lakes Sampled in 1995

Parameter	STORET Code
Field Chemistry	
Temperature	00010
Conductivity	00095
pH	00400
Dissolved Oxygen	00300
Laboratory Analyses	
Color	00080
Alkalinity, Total	00410
Residue, Dissolved	00515
Nitrogen, Total	00600
Ammonia, Total	00610
Nitrite, Total	00615
Nitrate, Total	00620
Phosphorus, Total	00665
Orthophosphate, Dissolved	00671
Organic Carbon, Total	00680
Hardness, Total	00900
Calcium, Dissolved	00915
Magnesium, Dissolved	00925
Sodium, Dissolved	00930
Potassium, Dissolved	00935
Sulfate, Dissolved	00946
Fluoride, Dissolved	00950
Silicon, Total	00955
Iron, Dissolved	01046
Manganese, Dissolved	01056
Orthophosphate, Total	70507
Chloride, Dissolved	82295

Limiting Nutrients

Nutrient concentrations have been shown to limit algal growth in many lakes (Cole, 1983). The phytoplankton community is considered to be limited by the amount of either phosphorus or nitrogen that is available to them in the water column. The phytoplankton utilize nitrogen and phosphorus at a ratio of 7 to 1 by weight in order to grow. This value is often referred to as the Redfield ratio. The Redfield ratio was developed to predict the limiting nutrient of a lake. A ratio greater than 7 to 1 indicates that the phytoplankton community is limited by the amount of phosphorus (Schindler, 1977). A ratio less than 7 to 1 suggests that algal growth is limited by the amount of nitrogen.

Trophic State Indices and Classification

Trophic state is a relative description of a lake's biological productivity (US EPA, 1980). That is, it is an expression of the amount of algae, plant, fish, and other forms of life that can be supported in the lake. Emphasis is usually placed on transparency and on the growth of algae and aquatic plants since these are the factors that are used by most lake users to evaluate the recreational potential of a lake.

The trophic state refers to the amount of lake eutrophication. Eutrophication is the natural process of aging and filling of lakes with sediment and organic debris. The increase in nutrients and sediment leads to high biological productivity, which is referred to as a eutrophic state. In contrast, oligotrophic lakes are poor in nutrients and have low biological productivity. Mesotrophic lakes are intermediate in nutrients, and have biological productivity between oligotrophic and eutrophic lakes.

Eutrophication may be extremely slow or become accelerated by the cultural activities of man. It also is possible, in a fertile site, for a new impoundment to begin in a highly eutrophic condition.

The assessment and classification of lakes based on their trophic state have been attempted by a number of investigators. Carlson (1977) developed the Trophic State Index (TSI), which uses a log transformation of Secchi disc values as a measure of algal biomass or biological productivity. Each increase of ten units, on a scale from 0 to 110, represents a doubling of algal biomass. Increasing values for the TSI are indicative of increasing eutrophication.

Lake types are classified by TSI score. A TSI score of 40 or less indicates oligotrophic conditions, a TSI between 40 and 50 suggests mesotrophic conditions, and a TSI greater than 50 indicates a lake in a eutrophic state. Lakes with TSI scores over 60 are considered to be hypereutrophic or excessively productive.

Because chlorophyll *a* and total phosphorus are closely correlated to Secchi disc measurements and help define the degree of eutrophication, these parameters also may be assigned TSI values. Total phosphorus is relatively stable throughout the year and can supply a meaningful value during seasons when algal biomass is far below its potential maximum. However, accurate TSI values depend on the assumption that phosphorus is the limiting factor for algal growth. Chlorophyll *a*, a plant pigment present in all algae, provides the best method for estimating algal biomass, especially during the summer months when temperature and other factors do not limit the growth of algae. Carlson recommends using the chlorophyll *a* index during the summer months and phosphorus values during the remainder of the year.

For this report, the TSI is reported as the mean using total phosphorus concentrations at the surface for the sampling period.

Table 8 . ***Lakes and Sampling Locations***
Taken from Ulanoski and others, 1981.

Name of Lake	County	Location
Canoe Creek Lake	Blair	Station A: Near spillway Station B: Near inflow
Lake Carey	Wyoming	Station A: Center of north basin
Ford Lake	Lackawanna	Station A: Near spillway
Harveys Lake	Luzerne	Station A: Center of north basin Station B: Center of south basin
Hills Creek Lake	Tioga	Station A: Near dam Station B: Middle of northern embayment
Lackawanna Lake	Lackawanna	Station A: Near spillway Station B: In channel of Bullhead Bay
Parker Dam	Clearfield	Station A: Near spillway
Shawnee Lake	Bedford	Station A: Near spillway Station B: Shilkburg Cove Station C: Keg Run Cove
Speedwell Forge Lake	Lancaster	Station A: Near spillway Station B: Upstream from Causeway
C.F. Walker Lake	Snyder	Station A: Near spillway Station B: Mid-lake off Moyers Mill Run
Lake Winola	Wyoming	Station A: Middle of northeast embayment Station B: Middle of southwest embayment

PHYSICAL AND CHEMICAL CHARACTERISTICS OF SELECTED LAKES

This section contains morphometric, chemical, physical, and biological data for the ten lakes monitored during 1995. For each of the lakes, the following information is presented:

- A general description of the physical characteristics of the lake and the drainage basin;
- Available recreational facilities;
- Identification of major point and/or non-point sources of pollution;
- Identification of local resources with potential interest in lake protection or restoration;
- Discussion of water quality conditions;
- A lake map;
- Tabulated water chemistry data; and
- Depth profiles for dissolved oxygen, temperature, pH, and specific conductance.

Selected data for Harveys Lake (Coastal Environmental Services, Inc., 1994) also are presented.

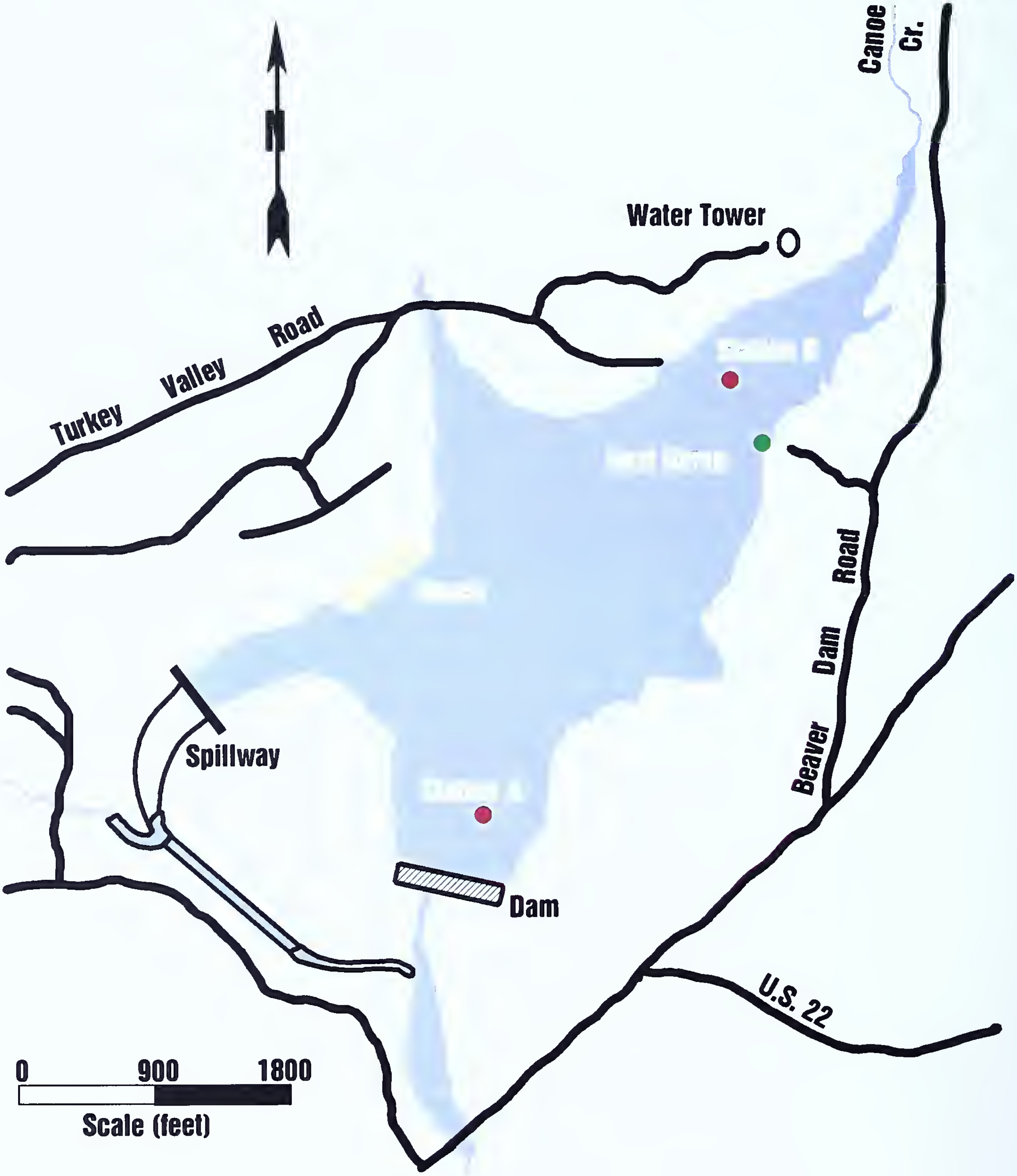


Figure 2. Map of Canoe Creek Lake

CANOE CREEK LAKE

Location:

Approximately 6.0 miles northeast of Hollidaysburg, Frankstown Township, Blair County (Figure 2); Canoe Creek State Park: latitude 40°28'38", longitude 78°16'51"; Frankstown Branch Juniata River Basin; 905 feet altitude; Frankstown quadrangle (1:24,000).

Origin:

Artificial, built in 1973.

Ownership:

Commonwealth of Pennsylvania, Department of Conservation and Natural Resources.

Physical Characteristics of Lake:

Surface area:	155	acres (627,263 m^2)
Volume:	1,490	acre-feet (1,837,888 m^3)*
Mean depth:	9.4	feet (2.9 m)*
Maximum depth:	16.7	feet (5.1 m)*
Length of shoreline:	3.0	miles (4.8 km)

Drainage Basin Characteristics:

Size: 16.4 mi^2 (42.5 km^2)

Geology: Complex area consisting of Devonian, Silurian, and Ordovician sedimentary rocks. Residual shales and sandstone are predominant soil parent material.

Soils: Silt loam and stony loam of the Dekalb-Lordstown intergrade and Frankstown groups, respectively.

Land use:

1981*		1992 (EMAP)	
Urban	0%	Developed–high intensity	0%
Suburban	1%	Developed–low intensity	0.2%
Agricultural	18%	Herbaceous	87.3%
Forest or undeveloped	79%	Woody	11.0%
Lake surface	2%	Exposed	0%
		Water	1.5%

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* Source: Ulanoski, J.T., R.H. Shertzer, J.L. Barker, and R.T. Hartman. 1981. Trophic Classification and Characteristics of Twenty-Six Publicly Owned Pennsylvania Lakes. Bureau of Water Quality Management, Pa. Department of Environmental Resources, Publication No. 61, 240 pp.

Near-shore Development:

Number of near-shore homes: approximately 66.

Recreational Facilities:

Public boat launch (qualified nonpowered or electric motors only), picnic area, swimming beach, boat rental, and handicapped access are available.

Hydrology:

The lake is fed by two streams, with Canoe Creek the larger. The outflow is to Canoe Creek. Mean hydraulic retention time* is calculated to be 32 days.

Point Source Waste Discharges in Watershed:

None.

Nonpoint Pollution Sources:

Suburban and agricultural land uses generate nutrient and sediment runoff.

Potential Local Interest Resources:

Blair County Planning Commission
P.O. Box 405
Hollidaysburg, PA 16648
(814) 695-5541 Ext. 360

Blair County Conservation District
1407 Blair Street
Hollidaysburg, PA 16648
(814) 696-0877

PA Federation of Sportsmen's Clubs
Ernest Sheppard
R.D. 3, Box 290
Hollidaysburg, PA 16648-9803

Water Quality:

Canoe Creek Lake is a shallow reservoir that does not stratify thermally or chemically (Figure 3). The shallow depth of the lake provides suitable habitat for the growth of aquatic weeds. Ulanoski and others (1981) reported that the water quality in the lake was good, but agricultural and suburban land uses may result in some nutrient and sediment loading in the lake.

The water quality in Canoe Creek Lake appears to be good (Tables 9A and 9B). Total nitrogen concentrations have decreased slightly since the previous survey. The decrease in nitrogen has not improved the quality of the lake because algal growth appears to be phosphorus limited. The total nitrogen to phosphorus ratio is 9.93 to 1 for Canoe Creek Lake, which indicates that total phosphorus concentrations limit the growth of algae in the lake.

TSI values for Canoe Creek Lake ranged from 50 to 58 based on chlorophyll *a* and total phosphorus concentrations. The TSI scores suggest that the lake is mesotrophic to eutrophic.

Table 9A. Water Quality Results for Canoe Creek Lake, Station A

STORET Code	Parameter	Units	5/15/95		6/12/95		9/11/95	
			1.0 meter	5.0 meters	1.0 meter	5.0 meters	1.0 meter	5.0 meters
00010	Temperature	°C	15.90	13.20	23.70	15.80	22.40	21.80
00400	pH	su	7.30	6.35	8.60	7.35	8.00	7.58
00300	Dissolved Oxygen	mg/l	9.26	4.17	7.58	3.01	6.41	5.89
00094	Specific Conductance	umhos/cm	169.00	168.00	147.00	184.00	179.00	183.00
	Secchi Depth	meters	1.50		3.50		1.17	
00080	Color	pt/c	20.0000	20.0000	15.0000	15.0000	5.0000	10.0000
00410	Alkalinity	mg/l	50.0000	52.0000	44.0000	62.0000	59.0000	60.0000
00515	Solids - Dissolved	mg/l	112.0000	182.0000	106.0000	148.0000	164.0000	154.0000
00600A	Nitrogen - Total	mg/l	0.3500	0.5600	0.3800	0.5600	0.4100	0.4400
00610A	Ammonia - Total	mg/l	0.0200	0.1400	0.0300	0.1700	0.0200	0.0600
00615A	Nitrite - Total	mg/l	< 0.0040	0.0040	0.0040	0.0060	< 0.0040	0.0040
00620A	Nitrate - Total	mg/l	< 0.0400	0.1300	0.0400	0.0800	0.0400	< 0.0400
00665A	Phosphorus - Total	mg/l	0.0400	0.0500	0.0300	0.0400	0.0400	0.0500
00671A	Ortho Phosphorus - Dissolved	mg/l	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020
00680	Organic Carbon - Total	mg/l	2.6000	3.3000	3.2000	3.2000	4.3000	4.4000
00900A	Hardness - Total	mg/l	73.0000	73.0000	55.0000	75.0000	79.5000	80.0000
00915A	Calcium - Dissolved	mg/l	21.4000	21.8000	20.3000	25.2000	22.0500	21.5000
00925A	Magnesium - Dissolved	mg/l	4.8400	4.8500	4.5400	5.3600	5.1050	4.7800
00930A	Sodium - Dissolved	mg/l	2.1000	1.9500	1.8900	1.6200	1.2650	0.9890
00935A	Potassium - Dissolved	mg/l	0.8790	1.0800	1.0300	0.9340	0.7305	0.7270
00946	Sulfate - Dissolved	mg/l	24.9000	23.5000	20.4000	21.7000	22.4000	22.1000
00950	Fluoride - Dissolved	mg/l	< 0.2000	< 0.2000	< 0.2000	< 0.2000	< 0.2000	< 0.2000
00955A	Silicon	mg/l	2.3326	3.7664	2.5038	3.0388	3.0923	3.1030
01046A	Iron - Dissolved	µg/l	29.0000	50.0000	37.0000	36.0000	62.0000	105.0000
01056A	Manganese - Dissolved	µg/l	< 10.0000	397.0000	10.0000	1,080.0000	140.5000	382.0000
32230	Chlorophyll *a*	mg/l	0.0000	Not Sampled	0.0074	Not Sampled	0.0139	Not Sampled
70507A	Ortho Phosphorus - Total	mg/l	0.0050	0.0100	< 0.0020	< 0.0020	< 0.0020	0.0040
82295A	Chloride - Dissolved	µg/l	2,000.0000	2,000.0000	2,000.0000	2,000.0000	2,000.0000	2,000.0000

Table 9B. Water Quality Results for Canoe Creek Lake, Station B

STORET Code	Parameter	Units	5/15/95	6/12/95	9/11/95
			1.0 meter	1.0 meter	1.0 meter
00010	Temperature	°C	16.50	23.30	22.90
00400	pH	su	7.08	8.62	7.95
00300	Dissolved Oxygen	mg/l	9.17	7.91	6.59
00094	Specific Conductance	umhos/cm	165.00	143.00	179.00
	Secchi Depth	meters		2.50	1.00
00080	Color	pt/c	20.0000	15.0000	5.0000
00410	Alkalinity	mg/l	48.0000	44.0000	60.0000
00515	Solids - Dissolved	mg/l	114.0000	101.0000	164.0000
00600A	Nitrogen - Total	mg/l	0.3200	0.3200	0.5000
00610A	Ammonia - Total	mg/l	0.0200	0.0250	0.0200
00615A	Nitrite - Total	mg/l	0.0040	0.0040	<0.0040
00620A	Nitrate - Total	mg/l	0.0660	0.0400	<0.0400
00665A	Phosphorus - Total	mg/l	0.0400	0.0950	0.0400
00671A	Ortho Phosphorus - Dissolved	mg/l	<0.0020	0.0465	<0.0020
00680	Organic Carbon - Total	mg/l	2.8000	3.1500	4.4000
00900A	Hardness - Total	mg/l	70.0000	56.0000	78.0000
00915A	Calcium - Dissolved	mg/l	21.6000	18.5000	21.3000
00925A	Magnesium - Dissolved	mg/l	4.9400	4.2850	4.8000
00930A	Sodium - Dissolved	mg/l	1.7900	1.3100	1.0200
00935A	Potassium - Dissolved	mg/l	0.6600	0.8510	0.8490
00946	Sulfate - Dissolved	mg/l	23.9000	19.5000	22.6000
00950	Fluoride - Dissolved	mg/l	<0.2000	<0.2000	<0.2000
00955A	Silicon	mg/l	2.5038	2.3433	2.7820
01046A	Iron - Dissolved	Og/l	22.0000	43.0000	51.0000
01056A	Manganese - Dissolved	Og/l	13.0000	65.0000	57.0000
32230	Chlorophyll *a*	mg/l	Not Sampled	Not Sampled	Not Sampled
70507A	Ortho Phosphorus - Total	mg/l	0.0050	0.0540	<0.0020
82295A	Chloride - Dissolved	Og/l	2,000.0000	1,500.0000	2,000.0000

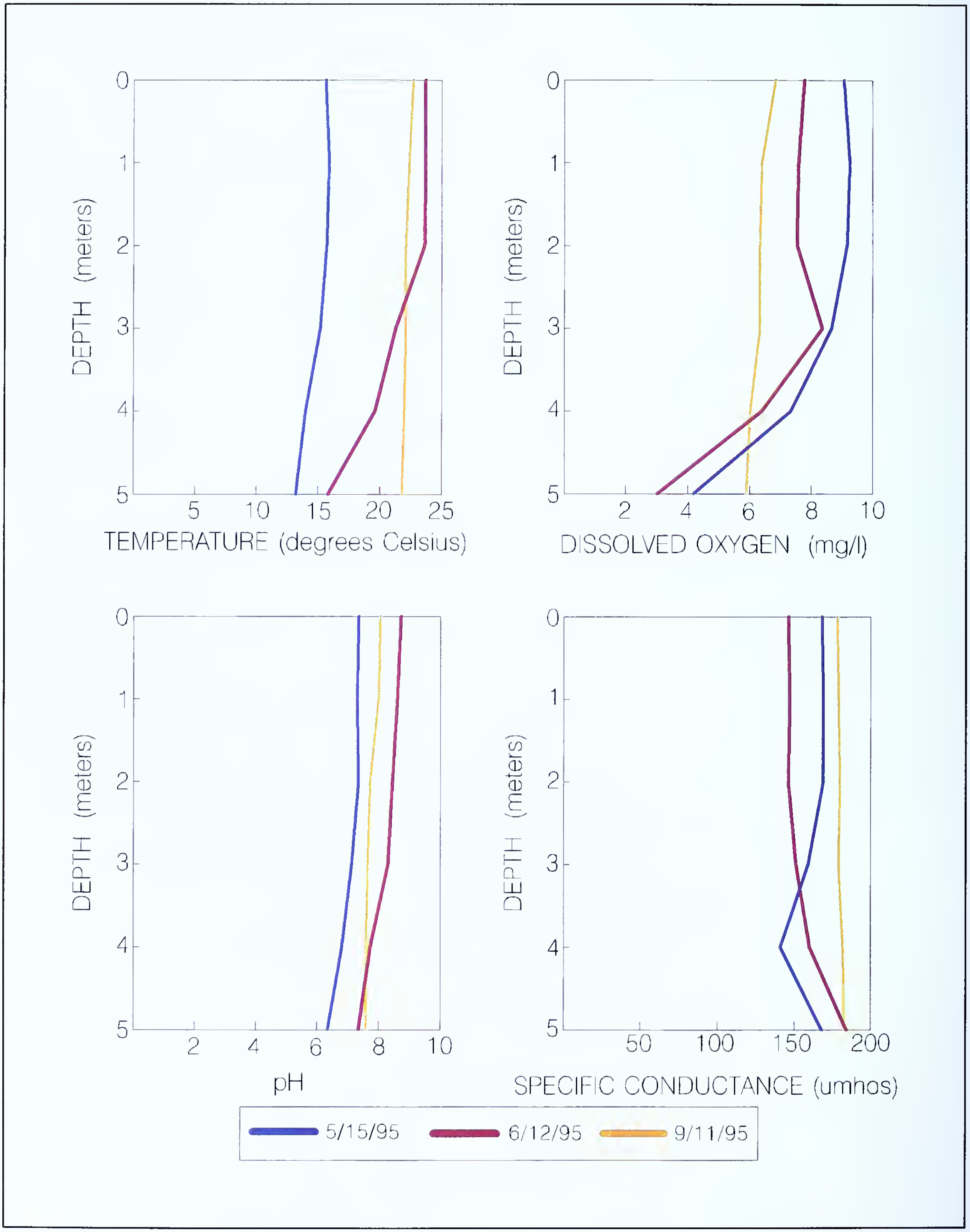

Figure 3. ***Temperature, Dissolved Oxygen, pH, and Specific Conductance Profiles for Canoe Creek Lake***

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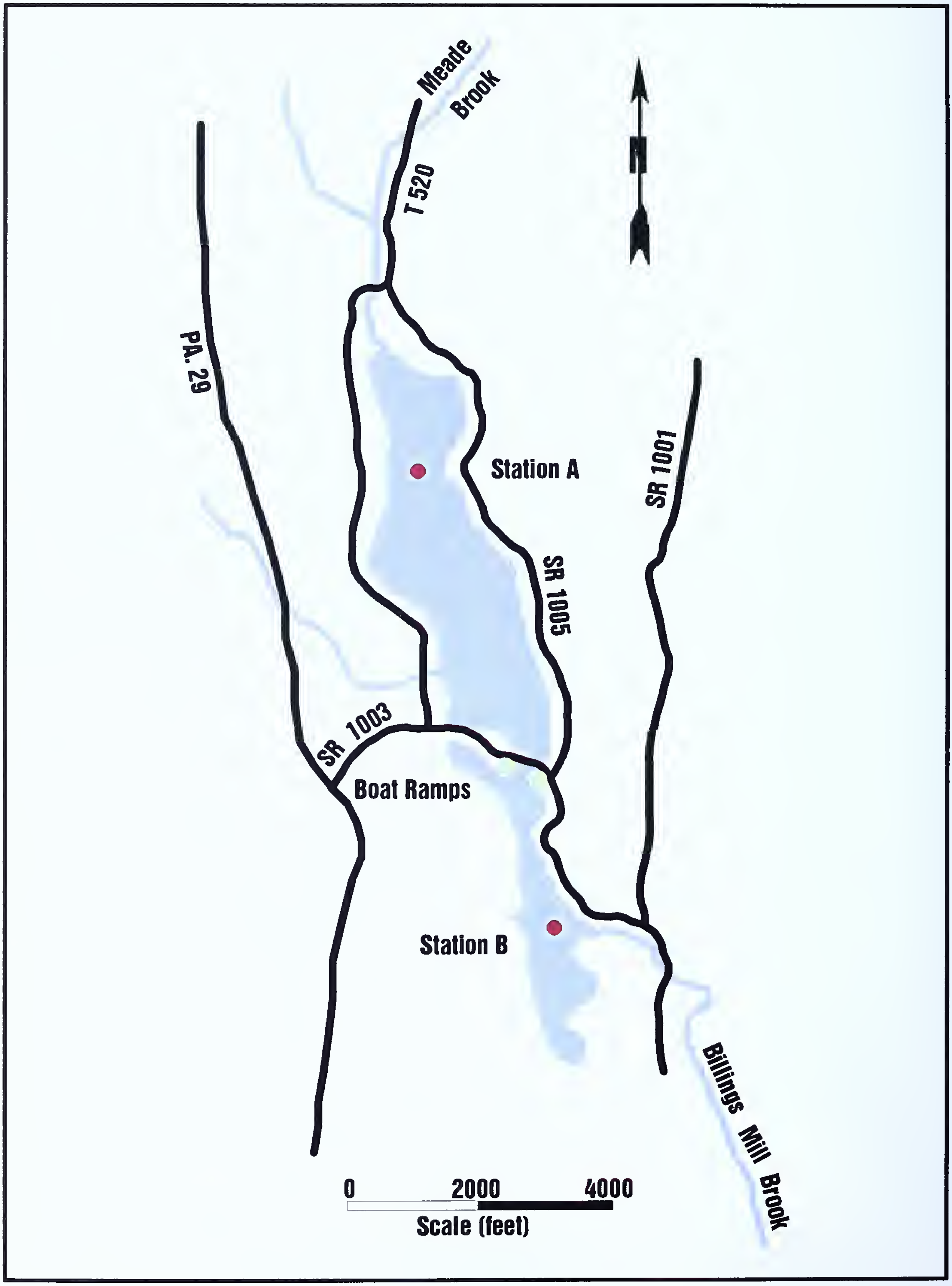

Figure 4. Map of Lake Carey

LAKE CAREY

Location:

Approximately 4.1 miles north of Tunkhannock, Lemon and Tunkhannock Townships. Wyoming County (Figure 4): latitude 41°34'55", longitude 75°55'11"; North Branch Susquehanna River Basin; 947 feet altitude; Tunkhannock quadrangle (1:24,000).

Origin:

Natural lake, water levels were raised approximately 4.5 feet for a sawmill turbine.

Ownership:

Commonwealth of Pennsylvania; surrounding land in private ownership.

Physical Characteristics of Lake:

Surface area:	262	acres (1,060,276 m^2)
Volume:	3,782	acre-feet (4,665,029 m^3)*
Mean depth:	22	feet (6.7 m)*
Maximum depth:	34	feet (10.4 m)*
Length of shoreline:	5.1	miles (8.2 km)

Drainage Basin Characteristics:

Size:	4.5 mi^2 (11.7 km^2)
Geology:	Upper Devonian shales and sandstone
Soils:	Silt loam formed on Wisconsin till

Land use:

1981*	
Urban	0%
Suburban	10%
Agricultural	37%
Forest or undeveloped	45%
Lake surface	8%

1992 (EMAP)	
Developed–high intensity	0%
Developed–low density	1.4%
Herbaceous	51.2%
Woody	37.4%
Exposed	0%
Water	10.0%

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* Source: Ulanoski, J.T., R.H. Shertzer, J.L. Barker, and R.T. Hartman. 1981. Trophic Classification and Characteristics of Twenty-Six Publicly Owned Pennsylvania Lakes. Bureau of Water Quality Management, Pa. Department of Environmental Resources, Publication No. 61, 240 pp.

Near-shore Development:

Number of near-shore homes: approximately 280.

Recreational Facilities:

Free public boat launch from public roadways, private boat launch, and boat rental. Motor boats with unlimited horsepower are allowed.

Hydrology:

The lake is fed by two streams flowing through marshy ground. The outflow is to Billings Mill Brook. Mean hydraulic retention time* is calculated to be 280 days.

Point Source Waste Discharges in Watershed:

None.

Nonpoint Pollution Sources:

Septic system infiltration from near-shore development, agricultural runoff.

Potential Local Interest Resources:

Lake Carey Welfare Association
RD # 1, Lake Carey
Tunkhannock, PA 18652
(717) 836-2375

Wyoming County Conservation District
R.R. # 3, Box 178B
Tunkhannock, PA 18657
(717) 836-2589 or (717) 836-2993

Wyoming County Planning Commission
Courthouse
Tunkhannock, PA 18657
(717) 836-3200

PA Federation of Sportsmen's Clubs
Michael Pekar
1332 Penn Avenue
Scranton, PA 18509-2831

PA Federation of Sportsmen's Clubs
Robert E. Dickinson
R.D. 2, Box 249
Dalton, PA 18414-9802

Water Quality:

Lake Carey is a natural lake of glacial origin. A dam has raised the lake's water level an additional 4.5 feet (1.5 meters). The lake shoreline is highly developed with homes and cottages. Previous studies indicate elevated nutrient concentrations and blue-green algae blooms during the summer months. Aquatic plant growth is limited to the shallow water areas in the lower part of the lake.

The lake is relatively deep and stratifies thermally and chemically (Figure 5). Oxygen depletion in summer begins at a depth of 4.0 meters in summer. Nitrogen and phosphorus concentrations exhibited several trends during the sampling period. Total nitrogen concentrations increased between spring and summer, but decreased between summer and fall near the surface of the lake. Total phosphorus concentrations remained stable between spring and summer, but increased between summer and fall. The nitrogen to phosphorus ratios in the spring and summer indicate that phosphorus limits algal growth. By late summer, the phosphorus concentrations increase to a level where they no longer limit algal growth. Total nitrogen and phosphorus concentrations also increased towards the bottom of the lake. The highest nutrient concentrations were observed at the bottom of the lake.

Algal blooms affect the water quality in Lake Carey (Tables 10A and 10B). Algae use nitrogen and phosphorus to grow and reproduce at the surface of the lake. Nitrogen and phosphorus concentrations become reduced at the surface as the algal bloom spreads. The lower nutrient concentrations result in reduced algal growth and some die-off. The decaying algae settle to the bottom where the nitrogen and phosphorus that was used for growth are released back in the water column.

The TSI values for total phosphorus and chlorophyll *a* concentrations indicate that Lake Carey is in a eutrophic to hypereutrophic state. The TSI values ranged from 51 to 74 depending on the season. The mean TSI score based on total phosphorus was 66, which suggests hypereutrophic conditions.

Table 10A. Water Quality Results for Lake Carey, Station A

STORET Code	Parameter	Units	4/25/95		6/8/95		8/30/95	
			1.0 meter	9.0 meters	1.0 meter	9.0 meters	1.0 meter	9.0 meters
00010	Temperature	°C	11.10	8.40	23.80	11.90	24.70	12.50
00400	pH	su	7.25	7.05	7.55	6.84	7.75	7.10
00300	Dissolved Oxygen	mg/l	10.92	8.16	5.52	1.20	5.91	1.41
00094	Specific Conductance	umhos/cm	131.00	133.00	124.00	146.00	134.00	194.00
	Secchi Depth	meters	3.05		3.86		1.85	
00080	Color	pt/c	25.0000	30.0000	20.0000	20.0000	15.0000	30.0000
00410	Alkalinity	mg/l	30.0000	32.0000	30.0000	40.0000	32.0000	68.0000
00515	Solids - Dissolved	mg/l	80.0000	82.0000	96.0000	108.0000	96.0000	112.0000
00600A	Nitrogen - Total	mg/l	0.8500	1.2000	1.1700	1.2900	0.7900	3.8700
00610A	Ammonia - Total	mg/l	0.0500	0.4700	0.2200	0.7800	< 0.0200	3.0300
00615A	Nitrite - Total	mg/l	0.0080	0.0060	0.0040	0.0040	< 0.0040	0.0040
00620A	Nitrate - Total	mg/l	0.1900	0.1400	0.3700	0.0700	< 0.0400	< 0.0400
00665A	Phosphorus - Total	mg/l	0.0600	0.1800	0.0500	0.4300	0.1300	1.1400
00671A	Ortho Phosphorus - Dissolved	mg/l	< 0.0020	0.0410	< 0.0020	0.1710	0.0820	0.6200
00680	Organic Carbon - Total	mg/l	4.6000	4.6000	6.1000	5.3000	6.1000	6.1000
00900A	Hardness - Total	mg/l	37.0000	38.0000	34.0000	35.0000	45.0000	60.0000
00915A	Calcium - Dissolved	mg/l	12.6000	12.9000	13.4000	14.5000	11.6000	16.4000
00925A	Magnesium - Dissolved	mg/l	1.9500	1.9800	2.0600	2.1500	1.9300	2.0400
00930A	Sodium - Dissolved	mg/l	5.5700	5.5500	5.8000	5.6800	4.8700	4.6300
00935A	Potassium - Dissolved	mg/l	2.0700	1.7100	1.8800	1.8100	1.5400	1.9900
00946	Sulfate - Dissolved	mg/l	11.5000	10.6000	11.5000	9.1000	10.8000	1.3000
00950	Fluoride - Dissolved	mg/l	< 0.2000	< 0.2000	< 0.2000	< 0.2000	< 0.2000	< 0.2000
00955A	Silicon	mg/l	< 1.0700	< 1.0700	< 1.0700	1.6585	1.3375	3.6380
01046A	Iron - Dissolved	µg/l	18.0000	145.0000	45.0000	410.0000	115.0000	1990.0000
01056A	Manganese - Dissolved	µg/l	53.0000	413.0000	145.0000	778.0000	48.0000	2280.0000
32230	Chlorophyll *a*	mg/l	0.0081	Not Sampled	0.0000	Not Sampled	0.0235	Not Sampled
70507A	Ortho Phosphorus - Total	mg/l	0.0120	0.1100	< 0.0020	0.2310	0.0810	0.68
82295A	Chloride - Dissolved	µg/l	9,000.0000	10,000.0000	11,000.0000	11,000.0000	11,000.0000	11,000.0000

Table 10B. Water Quality Results for Lake Carey, Station B

STORET Code	Parameter	Units	4/26/95	6/8/95	8/30/95
			1.0 meter	1.0 meter	1.0 meter
00010	Temperature	°C	12.80	25.00	23.20
00400	pH	su	8.87	7.25	8.72
00300	Dissolved Oxygen	mg/l	11.27	4.37	6.79
00094	Specific Conductance	umhos/cm	130.00	143.00	134.00
	Secchi Depth	meters		1.83	0.56
00080	Color	pt/c	35.0000	25.0000	20.0000
00410	Alkalinity	mg/l	28.0000	36.0000	32.0000
00515	Solids - Dissolved	mg/l	80.0000	120.0000	91.0000
00600A	Nitrogen - Total	mg/l	0.6200	1.0300	1.6850
00610A	Ammonia - Total	mg/l	0.0400	0.2400	<0.0200
00615A	Nitrite - Total	mg/l	0.0040	0.0040	0.0040
00620A	Nitrate - Total	mg/l	<0.0400	<0.0400	<0.0400
00665A	Phosphorus - Total	mg/l	0.0400	0.0700	0.1100
00671A	Ortho Phosphorus - Dissolved	mg/l	<0.0020	<0.0020	<0.0020
00680	Organic Carbon - Total	mg/l	5.8000	7.2000	10.4500
00900A	Hardness - Total	mg/l	37.0000	35.5000	39.0000
00915A	Calcium - Dissolved	mg/l	12.8000	15.3000	12.1000
00925A	Magnesium - Dissolved	mg/l	1.8400	2.2900	1.9000
00930A	Sodium - Dissolved	mg/l	5.7900	6.5500	6.5800
00935A	Potassium - Dissolved	mg/l	1.3200	1.7050	1.5900
00946	Sulfate - Dissolved	mg/l	11.6000	10.1000	8.0000
00950	Fluoride - Dissolved	mg/l	<0.2000	<0.2000	<0.2000
00955A	Silicon	mg/l	1.8400	1.3428	1.6970
01046A	Iron - Dissolved	Og/l	51.0000	119.5000	66.5000
01056A	Manganese - Dissolved	Og/l	53.0000	392.0000	99.5000
32230	Chlorophyll *a*	mg/l	Not Sampled	Not Sampled	Not Sampled
70507A	Ortho Phosphorus - Total	mg/l	0.0110	0.0035	0.0050
82295A	Chloride - Dissolved	Og/l	10,000.0000	12,000.0000	13,000.0000

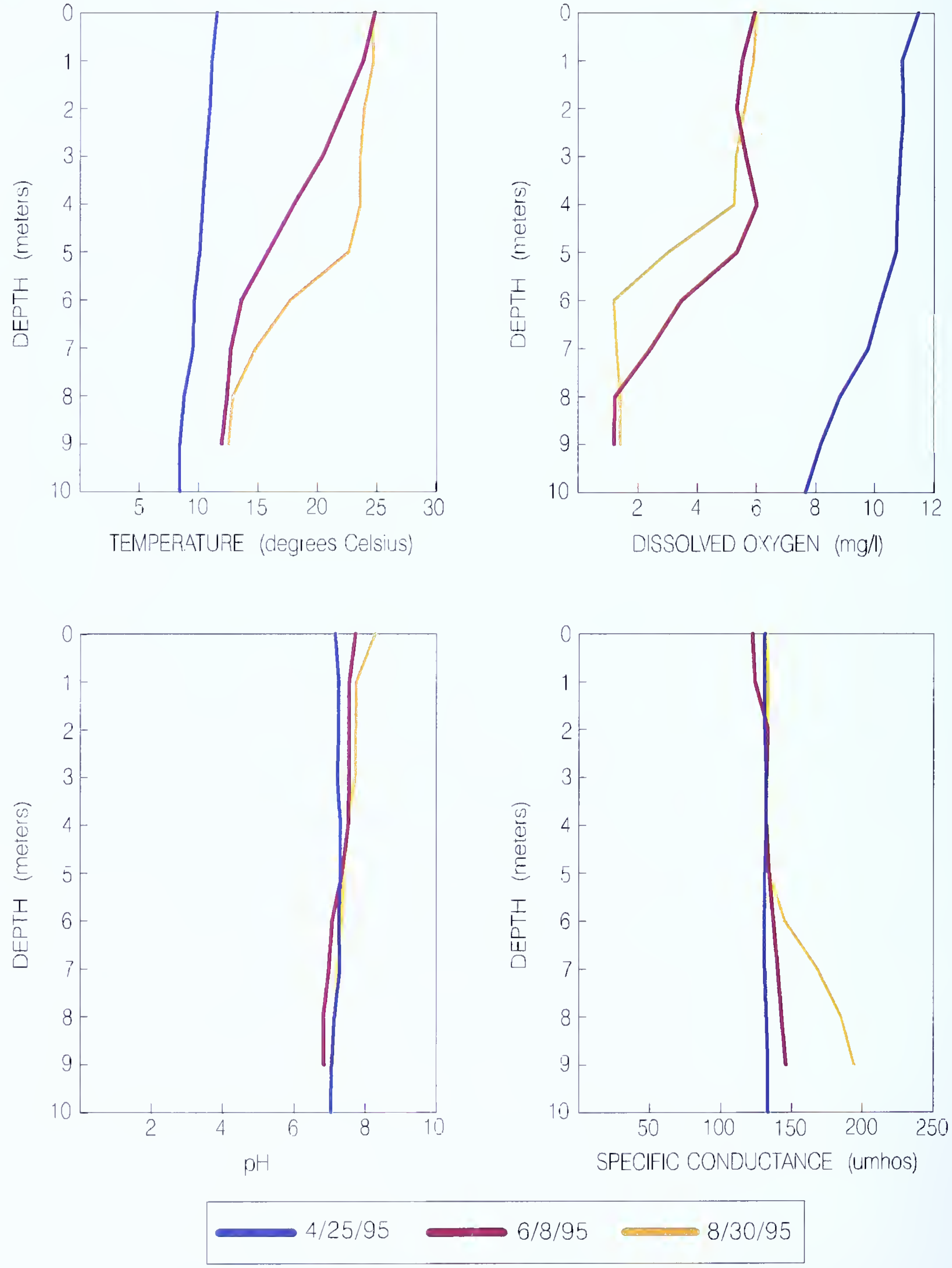

Figure 5. Temperature, Dissolved Oxygen, pH, and Specific Conductance Profiles for Lake Carey

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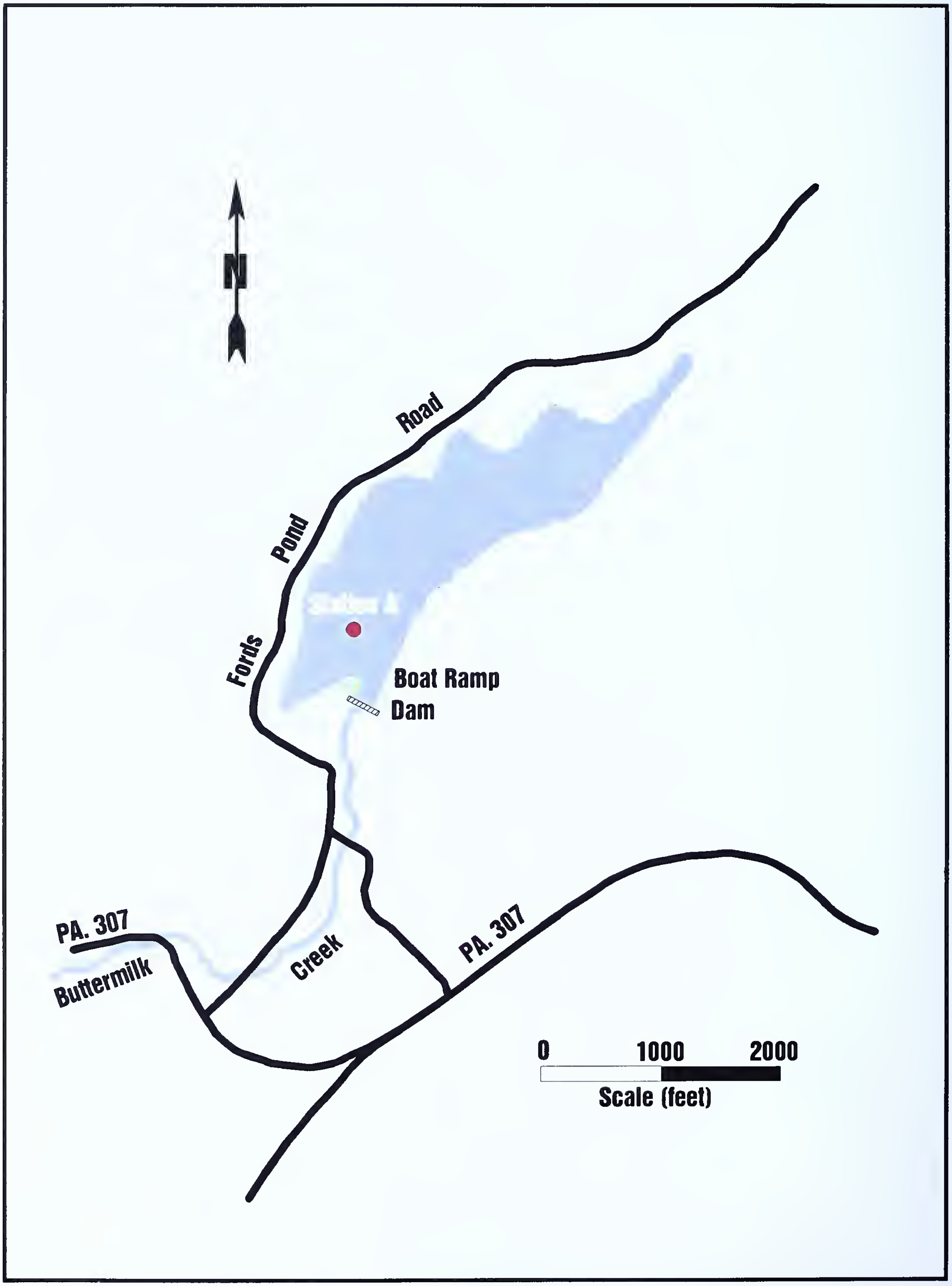

Figure 6. Map of Ford Lake

FORD LAKE

Location:

Approximately 3.5 miles west of Clarks Summit, Newton and Glenburn Townships, Lackawanna County (Figure 6); latitude 41°29'24", longitude 75°46'00"; North Branch Susquehanna River Basin; 1,147 feet altitude; Ransom quadrangle (1:24,000).

Origin:

Artificial, built in 1812.

Ownership:

Commonwealth of Pennsylvania, Pennsylvania Fish and Boat Commission

Physical Characteristics of Lake:

Surface area:	72	acres (291,384 m^2)
Volume:	180	acre-feet (221,940 m^3)*
Mean depth:	2.5	feet (0.7 m)*
Maximum depth:	9.0	feet (2.7 m)*
Length of shoreline:	1.9	miles (3.1 km)

Drainage Basin Characteristics:

Size: 0.9 mi^2 (2.3 km^2)
Geology: Shales and sandstone
Soils: Silt loam formed on Wisconsin till
Land use:

1981*		1992 (EMAP)	
Urban	0%	Developed–high intensity	0%
Suburban	1%	Developed–low intensity	<0.1%
Agricultural	56%	Herbaceous	59.8%
Forest or undeveloped	30%	Woody	30.0%
Lake surface	13%	Exposed	0.6%
		Water	9.6%

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* Source: Ulanoski, J.T., R.H. Shertzer, J.L. Barker, and R.T. Hartman. 1981. Trophic Classification and Characteristics of Twenty-Six Publicly Owned Pennsylvania Lakes. Bureau of Water Quality Management, Pa. Department of Environmental Resources, Publication No. 61, 240 pp.

Near-shore Development:

Number of near-shore homes: approximately 7.

Recreational Facilities:

Boat launch (qualified nonpowered or electric motors only), handicapped access is available.

Hydrology:

The lake is fed by an unnamed tributary and groundwater sources. The outflow is to Buttermilk Creek. Mean hydraulic retention time* is calculated to be 65 days.

Point Source Waste Discharges in Watershed:

None.

Nonpoint Pollution Sources:

Approximately half of the watershed is devoted to agricultural land uses, generating nutrient and sediment runoff.

Potential Local Interest Resources:

Lackawanna County Regional Planning Commission
200 Adams Avenue
Scranton, PA 18503
(717) 963-6826

Lackawanna County Conservation District
395 Bedford Street
Clarks Summit, PA 18411
(717) 587-2607

PA Federation of Sportsmen's Clubs
Robert E. Dickinson
R.D. 2, Box 249
Dalton, PA 18414-9802

PA Federation of Sportsmen's Clubs
Michael Pekar
1332 Penn Avenue
Scranton, PA 18509-2831

Water Quality:

Ford Lake, also known as Ford's Pond, is a shallow reservoir with an abundance of algae and aquatic plants. The shallow nature of the lake results in a large littoral zone that provides an abundance of habitat for the growth of aquatic plants. High nutrient concentrations were observed during previous studies.

The lake does not stratify thermally or chemically because of its shallow depth. Dissolved oxygen concentrations were extremely low during the summer months (Table 11). The low dissolved oxygen values may be due to gas bubbles rising from the lake sediment. As organic material decomposes at the bottom of a lake, hydrogen sulfide and other gases that remove oxygen are released into the water. Ford Lake also may experience diurnal changes in dissolved oxygen concentrations due to the abundance of aquatic plants. The process of photosynthesis in plants uses light to convert carbon dioxide and water into carbohydrates and oxygen. The plants use the carbohydrates to grow and release the oxygen into the water. At night, the respiratory process of plants results in oxygen being used to produce carbon dioxide.

High nutrient concentrations promote the growth of algae and aquatic plants in the shallow waters of Ford Lake. The abundance of plant life results in large amounts of decaying organic material in the lake. This contributes to high total organic carbon and color concentrations.

The TSI analysis of Ford Lake indicates that it is extremely productive. The TSI scores ranged from 48 to 73 based on chlorophyll *a* values. The TSI scores for total phosphorus ranged from 65 to 82. The analysis suggests that Ford Lake is hypereutrophic.

Table 11. Water Quality Results for Ford Lake, Station A

STORET Code	Parameter	Units	4/25/95 1.0 meter	6/6/95 1.0 meter	8/29/95 1.0 meter
00010	Temperature	°C	11.70	22.30	20.70
00400	pH	su	6.78	7.65	6.78
00300	Dissolved Oxygen	mg/l	8.86	4.61	3.82
00094	Specific Conductance	umhos/cm	108.00	130.00	125.00
	Secchi Depth	meters	1.50	1.50	0.56
00080	Color	pt/c	40.0000	55.0000	240.0000
00410	Alkalinity	mg/l	22.0000	30.0000	41.0000
00515	Solids - Dissolved	mg/l	96.0000	87.0000	141.0000
00600A	Nitrogen - Total -	mg/l	0.5600	0.8650	1.5500
00610A	Ammonia - Total	mg/l	< 0.0200	< 0.0200	< 0.0200
00615A	Nitrite - Total	mg/l	< 0.0040	0.0080	0.0170
00620A	Nitrate - Total	mg/l	< 0.0400	0.0800	< 0.0400
00665A	Phosphorus - Total	mg/l	0.0700	0.1400	0.2200
00671A	Ortho Phosphorus - Dissolved	mg/l	0.0050	0.0255	0.0490
00680	Organic Carbon - Total	mg/l	6.3000	11.2500	19.4500
00900A	Hardness - Total	mg/l	33.0000	38.0000	39.0000
00915A	Calcium - Dissolved	mg/l	11.9000	13.4000	13.4500
00925A	Magnesium - Dissolved	mg/l	4.5900	1.7700	1.8850
00930A	Sodium - Dissolved	mg/l	4.5900	4.9550	4.9150
00935A	Potassium - Dissolved	mg/l	1.9300	3.2100	3.8450
00946	Sulfate - Dissolved	mg/l	13.9000	10.3000	2.7500
00950	Fluoride - Dissolved	mg/l	< 0.2000	< 0.2000	< 0.2000
00955A	Silicon	mg/l	< 1.0700	1.2112	5.5319
01046A	Iron - Dissolved	µg/l	215.0000	749.0000	2,795.0000
01056A	Manganese - Dissolved	µg/l	90.0000	401.5000	690.0000
32230	Chlorophyll *a*	mg/l	0.005[illegible]	0.0057	0.0769
70507A	Ortho Phosphorus - Total	mg/l	0.0250	0.0425	0.0905
82295A	Chloride - Dissolved	µg/l	6,000.0000	8,000.0000	9,000.0000

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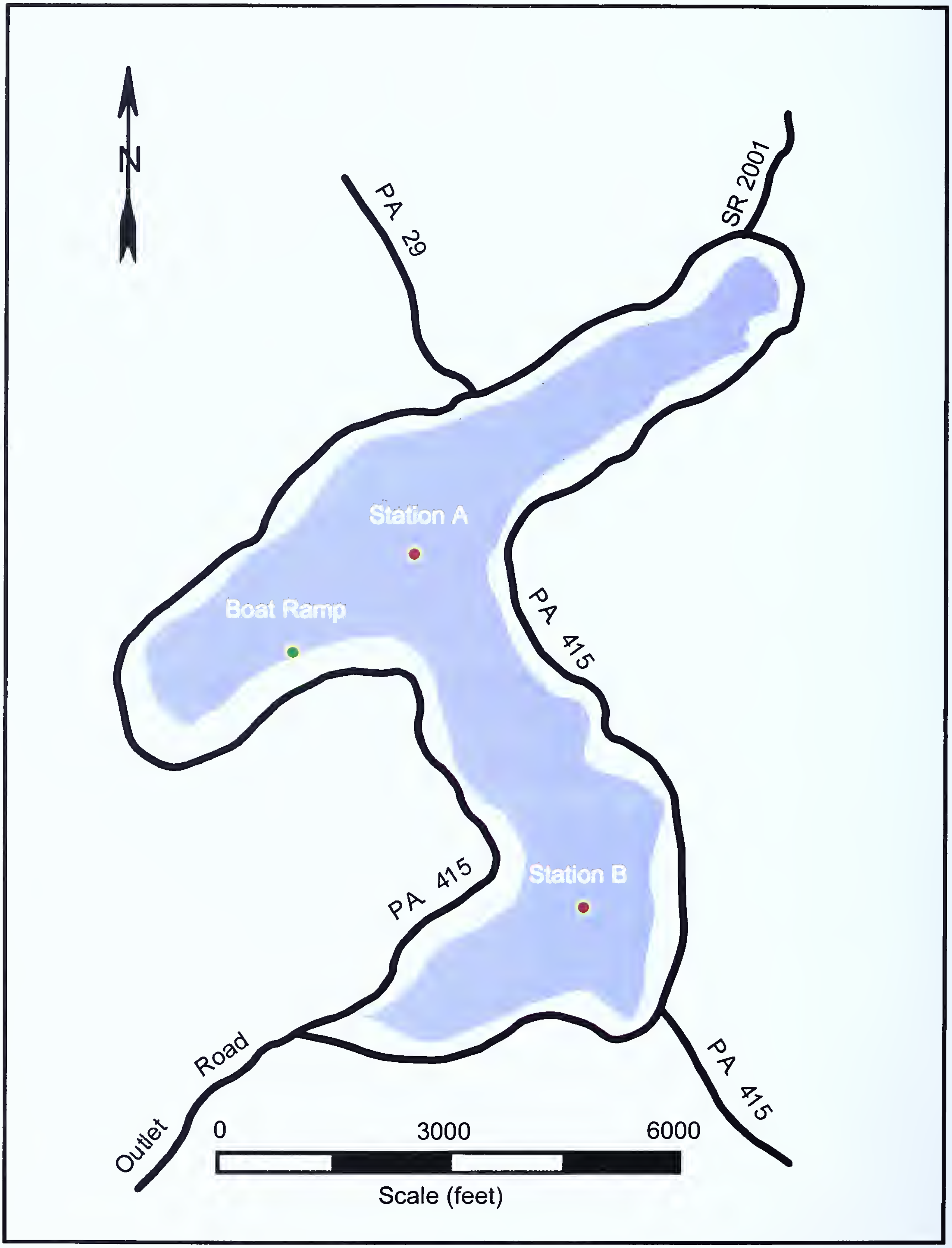

Figure 7. Map of Harveys Lake

HARVEYS LAKE

Location:

Approximately 11 miles northwest of Wilkes-Barre, Lake Township, Luzerne County (Figure 7); latitude 41°21'04", longitude 76°02'57"; North Branch Susquehanna River Basin; 1,255 feet altitude; Harveys Lake and Noxen quadrangles (1:24,000).

Origin:

Natural.

Ownership:

Commonwealth of Pennsylvania, Department of Conservation and Natural Resources; private parties own surrounding land and some lake bed.

Physical Characteristics of Lake:

Surface area:	659	acres (2,666,878 m^2)
Volume:	23,920	acre-feet (29,500,000 m^3)*
Mean depth:	36	feet (11 m)*
Maximum depth:	96	feet (29 m)*
Length of shoreline:	8.3	miles (13.4 km)

Drainage Basin Characteristics:

Size: 6.7 mi^2 (17.4 km^2)
Geology: Upper Devonian shale and sandstone.
Soils: Silt loam formed on Wisconsin till.
Land use:

1981*		1992 (EMAP)	
Urban	0%	Developed–high intensity	0%
Suburban	20%	Developed–low intensity	11.0%
Agricultural	1%	Herbaceous	68.0%
Forest or undeveloped	64%	Woody	6.8%
Lake surface	15%	Exposed	0%
		Water	14.2%

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* Source: Ulanoski, J.T., R.H. Shertzer, J.L. Barker, and R.T. Hartman. 1981. Trophic Classification and Characteristics of Twenty-Six Publicly Owned Pennsylvania Lakes. Bureau of Water Quality Management, Pa. Department of Environmental Resources, Publication No. 61, 240 pp.

Near-shore Development:

Number of near-shore homes: approximately 1,000.

Recreational Facilities:

Public boat launches (one area maintained by the Pa. Fish and Boat Commission), two swimming beaches, boat rental, fishing area, picnic area, and handicapped access are available.

Hydrology:

The lake is fed by three unnamed streams of minor importance. Groundwater supplies most of the water to the glacial lake basin. The outflow is to Harveys Creek. Mean hydraulic retention time* is calculated to be 1,116 days.

Point Source Waste Discharges in Watershed:

None.

Nonpoint Pollution Sources:

Although developed land uses account for only a small portion of the watershed's total area, the majority of those land types are found adjacent to the lake, and any nutrient and sediment runoff generated will directly enter the lake.

Potential Local Interest Resources:

Luzerne County Planning Commission
New Courthouse Annex
North River Street
Wilkes-Barre, PA 18771
(717) 825-1560

Luzerne County Conservation District
Court House Annex
5 Water Street
Wilkes-Barre, PA 18711
(717) 825-1844

Harveys Lake Environmental Advisory Council
Martin Noon
c/o Borough of Harveys Lake
Box 60
Harveys Lake, PA 18611
(717) 675-1814

Water Quality:

Harveys Lake is a high quality glacial lake. Harveys Lake is the largest natural lake, by volume, in the Commonwealth of Pennsylvania. Ulanoski and others (1981) reported that the water quality in the lake was good, probably due to the small surface inflow and great depth of the lake.

The water quality in Harveys Lake still appears to be good. A comprehensive limnological survey of Harveys Lake was conducted by Coastal Environmental Services, Inc., (1994) from March 1993 through August 1994. Data presented in Tables 12A and 12B were taken from that report.

Total nitrogen concentrations have increased slightly since the previous survey. The increase in nitrogen has not degraded the quality of the lake because algal growth appears to be phosphorus limited. The total nitrogen to phosphorus ratio is 21 to 1 for Harveys Lake.

TSI values for Harveys Lake ranged from 43 to 51 based on chlorophyll *a* and total phosphorus concentrations (Coastal Environmental Services, Inc., 1994). The TSI scores suggest that the lake is mesotrophic to eutrophic.

Table 12A. Selected Water Quality Results for Harveys Lake, Station A

STORET Code	Parameter	Units	5/10/93		6/07/93		9/15/93	
			0.0 meter	27.0 meters	0.0 meter	28.0 meters	0.0 meter	28.0 meters
00010	Temperature	°C	15.5	5.0	17.5	4.0	22.8	7.0
00400	pH	su	8.20	7.80	7.90	6.80	7.60	6.60
00300	Dissolved Oxygen	mg/l	11.8	8.9	9.3	1.0	8.8	0.3
00094	Specific Conductance	umhos/cm	94.00	94.00	111.00	127.00	115.00	121.00
	Secchi Depth	meters			10.5		12.0	
00410	Alkalinity	mg/l	20.30	18.27	19.29	19.29	20.30	20.30
	Suspended Solids - Total	mg/l	0.29	0.29	3.00	1.00	0.33	0.67
00610A	Ammonia - Total	mg/l	< 0.010	0.022	0.011	0.106	0.022	< 0.010
	Nitrite + Nitrate - Total	mg/l	0.061	0.066	< 0.010	0.023	0.014	0.096
00625A	Kjeldahl Nitrogen - Total	mg/l	0.99	0.85	0.51	0.40	4.35	0.74
00665A	Phosphorus - Total	mg/l	< 0.010	0.030	0.021	0.014	0.017	0.024
32230	Chlorophyll *a*	ug/l	2.50	Not Sampled	4.50	Not Sampled	5.92	Not Sampled
70507A	Ortho Phosphorus - Total	mg/l	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010

Table 12B. Selected Water Quality Results for Harveys Lake, Station B

STORET Code	Parameter	Units	5/10/93		6/07/93		9/15/93	
			0.0 meter	20.0 meters	0.0 meter	20.0 meters	0.0 meter	20.0 meters
00010	Temperature	°C	18.0	4.0	17.2	4.1	22.5	6.9
00400	pH	su	7.30	7.30	8.10	6.80	7.50	6.80
00300	Dissolved Oxygen	mg/l	11.4	0.1	9.2	0.0	7.8	0.0
00094	Specific Conductance	umhos/cm	105.00	104.00	113.00	111.00	106.00	111.00
	Secchi Depth	meters	8.00		11.0		11.0	
00410	Alkalinity	mg/l	17.26	20.30	21.32	18.27	24.40	16.90
	Suspended Solids - Total	mg/l	0.67	0.78	0.67	2.40	1.00	2.00
00610A	Ammonia - Total	mg/l	< 0.010	< 0.010	0.065	0.130	< 0.010	< 0.010
	Nitrite + Nitrate - Total	mg/l	0.078	0.072	0.028	0.054	0.015	0.054
00625A	Kjeldahl Nitrogen - Total	mg/l	0.54	0.19	0.44	0.67	1.14	0.87
00665A	Phosphorus - Total	mg/l	0.027	0.064	0.019	0.020	0.017	0.019
32230	Chlorophyll *a*	ug/l	5.59	Not Sampled	4.30	Not Sampled	7.24	Not Sampled
70507A	Ortho Phosphorus - Total	mg/l	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010

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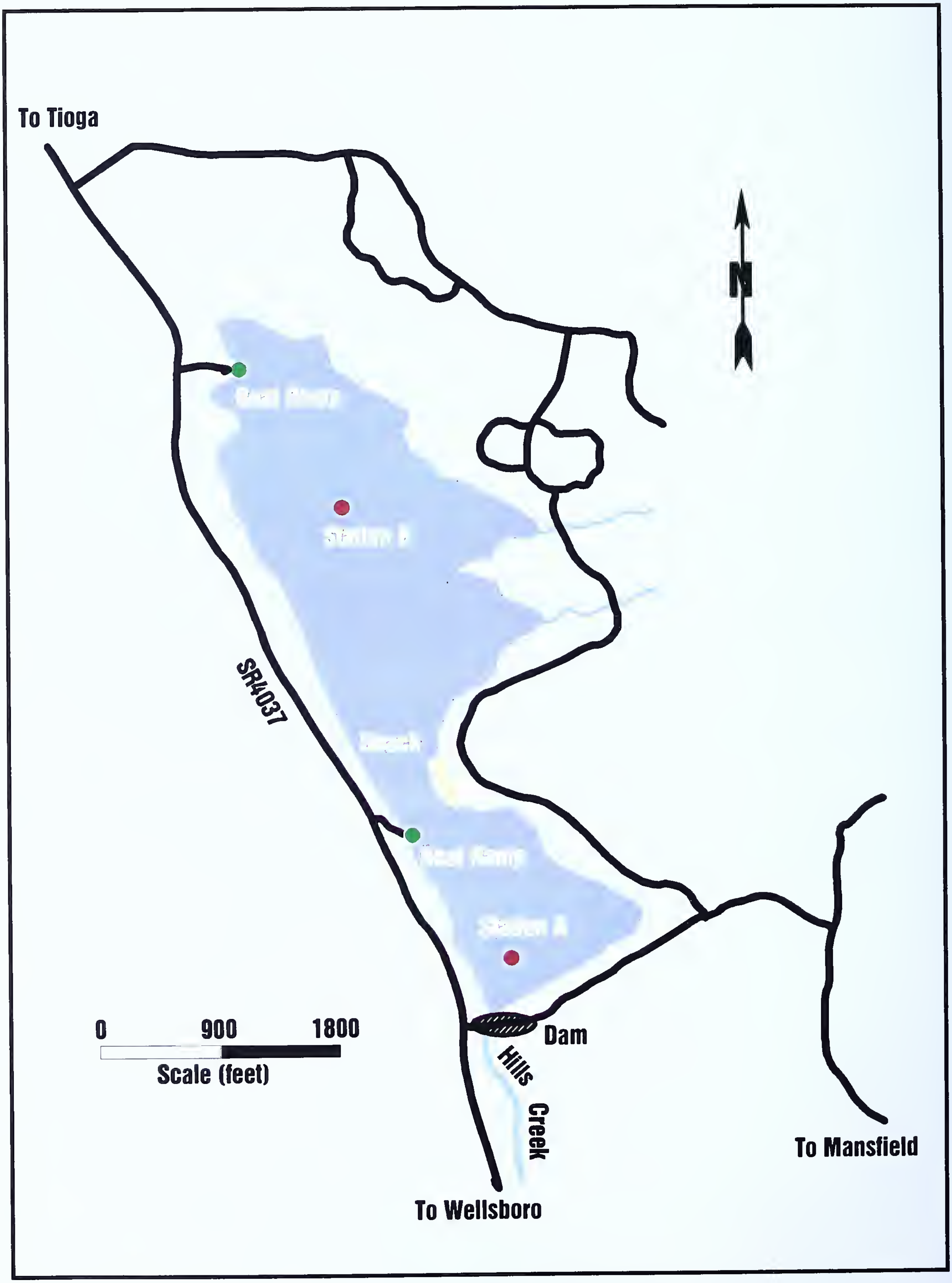

Figure 8. Map of Hills Creek Lake

HILLS CREEK LAKE

Location:

Approximately 7.0 miles west of Mansfield, Charleston Township, Tioga County (Figure 8): Hills Creek State Park; latitude 41°48'09", longitude 77°11'45"; tributary to Tioga River, Crooked Creek Basin, Susquehanna River Basin; 1,475 feet altitude; Crooked Creek quadrangle (1:24,000).

Origin:

Artificial, built in 1951.

Ownership:

Commonwealth of Pennsylvania, Department of Conservation and Natural Resources.

Physical Characteristics of Lake:

Surface area:	137	acres (554,000 m^2)
Volume:	1,298	acre-feet (1,601,060 m^3)*
Mean depth:	9.5	feet (2.9 m)*
Maximum depth:	18	feet (5.5 m)*
Length of shoreline:	3.1	miles (5.0 km)

Drainage Basin Characteristics:

Size: 4.0 mi^2 (10.4 km^2)
Geology: Devonian age shales and sandstones
Soils: Silt loam and channery loam formed on Wisconsin till
Land use:

1981*		1992 (EMAP)	
Urban	0%	Developed–high intensity	0%
Suburban	1%	Developed–low intensity	1.4%
Agricultural	18%	Herbaceous	68.1%
Forest or undeveloped	74%	Woody	23.4%
Lake surface	7%	Exposed	0%
		Water	7.2%

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* Source: Ulanoski, J.T., R.H. Shertzer, J.L. Barker, and R.T. Hartman. 1981. Trophic Classification and Characteristics of Twenty-Six Publicly Owned Pennsylvania Lakes. Bureau of Water Quality Management, Pa. Department of Environmental Resources, Publication No. 61, 240 pp.

Near-shore Development:

Number of near-shore homes: 16.

Recreational Facilities:

Boat launch and mooring site (qualified nonpowered or electric motors only), picnic area, swimming beach, boat rental.

Hydrology:

The lake has limited surface water inflow from two small tributaries. The major source of inflow is believed to be seepage. This lake was formerly a marsh. Mean hydraulic retention time* is calculated to be 164 days.

Point Source Waste Discharges in Watershed:

Discharger	NPDES #	Stream Name
Pennsylvania Department of Conservation and Natural Resources	PA0044547	Hills Creek

Nonpoint Pollution Sources:

Minimal. Watershed is predominately undeveloped.

Potential Local Interest Resources:

Tioga County Conservation District
5 East Avenue
Wellsboro, PA 16901
(717) 724-4812

Tioga County Planning Commission
Courthouse Annex
Wellsboro, PA 16901
(717) 724-1906 Ext. 218

PA Federation of Sportsmen's Clubs
Paul R. Lilja
R.R. 3, Box 229A
Coudersport, PA 16915

Lambs Creek Sportsmans Club
R.D. 3
Mansfield, PA 16933

Tioga Association of Recreation and Tourism
120 Main Street
Wellsboro, PA 16901

Water Quality:

Hills Creek Lake is relatively shallow and did not stratify thermally or chemically (Figure 9). Dissolved oxygen concentrations become depleted below a depth of 3 meters in late summer. Hills Creek Lake has a history of good water quality, but suffers from excessive fertility and long retention times. The mean retention time is calculated to be 164 days.

The lake has excessive growths of phytoplankton and rooted aquatic vegetation. Slightly elevated nutrient concentrations contribute to the abundance of weed growth (Tables 13A and 13B). Earlier reports suggested that nutrients are being recycled from the sediments in the lake bottom. A highly fertile swamp was inundated when the reservoir was constructed. The sediments from the swamp release nutrients back into the water column. Also, the water quality in Hills Creek Lake may be affected by another nearby swamp. Highly fertile water from Tauscher Pond seeps into Hills Creek Lake and contributes additional nutrients.

The TSI values for Hills Creek Lake indicate that it is very fertile. The TSI scores ranged from 46 to 73 based on chlorophyll *a* and total phosphorus concentrations. The TSI scores suggest that Hills Creek Lake is eutrophic to hypereutrophic.

Table 13A. Water Quality Results for Hills Creek Lake, Station A

STORET Code	Parameter	Units	5/18/95		6/15/95		9/14/95	
			1.0 meter	5.0 meters	1.0 meter	5.0 meters	1.0 meter	5.0 meters
00010	Temperature	c	15.10	14.10	21.60	20.40	19.40	18.40
00400	pH	su	7.15	6.92	8.68	7.15	7.80	7.05
00300	Dissolved Oxygen	mg/l	8.68	6.10	8.25	6.24	6.20	2.01
00094	Specific Conductance	umhos/cm	123.00	124.00	125.00	138.00	166.00	174.00
	Secchi Depth	meters	4.50		1.60		0.53	
00080	Color	pt/c	10.0000	20.0000	20.0000	20.0000	40.0000	70.0000
00410	Alkalinity	mg/l	36.0000	34.0000	36.0000	40.0000	62.0000	66.0000
00515	Solids - Dissolved	mg/l	76.0000	70.0000	132.0000	112.0000	164.0000	194.0000
00600A	Nitrogen - Total	mg/l	< 0.0400	0.5900	0.6200	0.5300	1.6100	1.6100
00610A	Ammonia - Total	mg/l	0.0300	0.0700	< 0.0200	< 0.0200	0.0900	0.4300
00615A	Nitrite - Total	mg/l	< 0.0040	< 0.0040	< 0.0040	< 0.0040	0.0040	0.0040
00620A	Nitrate - Total	mg/l	< 0.0400	0.0600	0.0400	< 0.0400	< 0.0400	< 0.0400
00665A	Phosphorus - Total	mg/l	0.0400	0.1700	0.0500	0.0600	0.1000	0.1500
00671A	Ortho Phosphorus - Dissolved	mg/l	< 0.0020	< 0.0020	< 0.0020	0.0340	NA	NA
00680	Organic Carbon - Total	mg/l	4.6000	4.5000	4.4000	4.1000	9.6000	9.2000
00900A	Hardness - Total	mg/l	45.0000	45.0000	41.0000	43.0000	60.0000	65.0000
00915A	Calcium - Dissolved	mg/l	14.0000	13.7000	14.9000	16.0000	21.0000	21.4000
00925A	Magnesium - Dissolved	mg/l	2.2400	2.1800	2.5900	2.6500	3.5100	3.5000
00930A	Sodium - Dissolved	mg/l	3.2400	3.0200	3.7000	3.8900	4.4400	4.4300
00935A	Potassium - Dissolved	mg/l	0.8330	0.8340	0.6700	4.4500	1.9800	1.8600
00946	Sulfate - Dissolved	mg/l	12.6000	13.5000	11.0000	11.1000	4.9000	4.8000
00950	Fluoride - Dissolved	mg/l	< 0.2000	< 0.2000	< 0.2000	< 0.2000	< 0.2000	< 0.2000
00955A	Silicon	mg/l	< 1.0700	1.3289	< 1.0700	< 1.0700	5.3286	5.6924
01046A	Iron - Dissolved	µg/l	46.0000	88.0000	20.0000	27.0000	247.0000	502.0000
01056A	Manganese - Dissolved	µg/l	78.0000	178.0000	< 10.0000	93.0000	801.0000	1,280.0000
32230	Chlorophyll *a*	mg/l	0.0048	Not Sampled	0.0183	Not Sampled	0.0782	Not Sampled
70507A	Ortho Phosphorus - Total	mg/l	< 0.0020	0.0200	< 0.0020	< 0.0020	NA	NA
82295A	Chloride - Dissolved	µg/l	6,000.0000	5,000.0000	6,000.0000	10,000.0000	7,000.0000	7,000.0000

Table 13B. Water Quality Results for Hills Creek Lake, Station B

STORET Code	Parameter	Units	5/18/95	6/15/95	9/14/95
			1.0 meter	1.0 meter	1.0 meter
00010	Temperature	°C	15.00	21.40	20.10
00400	pH	su	7.35	8.22	8.35
00300	Dissolved Oxygen	mg/l	8.57	7.41	7.62
00094	Specific Conductance	umhos/cm	123.00	131.00	163.00
	Secchi Depth	meters	4.20	1.42	0.48
00080	Color	pt/c	10.0000	20.0000	40.0000
00410	Alkalinity	mg/l	34.0000	40.0000	60.0000
00515	Solids - Dissolved	mg/l	94.0000	126.0000	172.0000
00600A	Nitrogen - Total	mg/l	0.2600	0.6500	1.8950
00610A	Ammonia - Total	mg/l	0.0400	<0.0200	<0.0200
00615A	Nitrite - Total	mg/l	<0.0040	0.0060	0.0040
00620A	Nitrate - Total	mg/l	0.0400	<0.0400	<0.0400
00665A	Phosphorus - Total	mg/l	0.0400	0.0700	0.1250
00671A	Ortho Phosphorus - Dissolved	mg/l	<0.0020	<0.0020	NA
00680	Organic Carbon - Total	mg/l	4.3000	4.4000	12.6500
00900A	Hardness - Total	mg/l	48.0000	44.0000	59.5000
00915A	Calcium - Dissolved	mg/l	13.8000	15.8000	20.5000
00925A	Magnesium - Dissolved	mg/l	2.2200	2.6200	3.4750
00930A	Sodium - Dissolved	mg/l	3.0100	3.8400	4.3800
00935A	Potassium - Dissolved	mg/l	0.6170	1.6600	1.6600
00946	Sulfate - Dissolved	mg/l	12.4000	10.5000	4.9000
00950	Fluoride - Dissolved	mg/l	<0.2000	<0.2000	<0.2000
00955A	Silicon	mg/l	<1.0700	1.2347	5.2002
01046A	Iron - Dissolved	µg/l	44.0000	27.0000	239.5000
01056A	Manganese - Dissolved	µg/l	57.0000	13.0000	663.0000
32230	Chlorophyll *a*	mg/l	Not Sampled	Not Sampled	Not Sampled
70507A	Ortho Phosphorus - Total	mg/l	0.0040	<0.0020	NA
82295A	Chloride - Dissolved	µg/l	5,000.0000	6,000.0000	7,000.0000

NA = not available

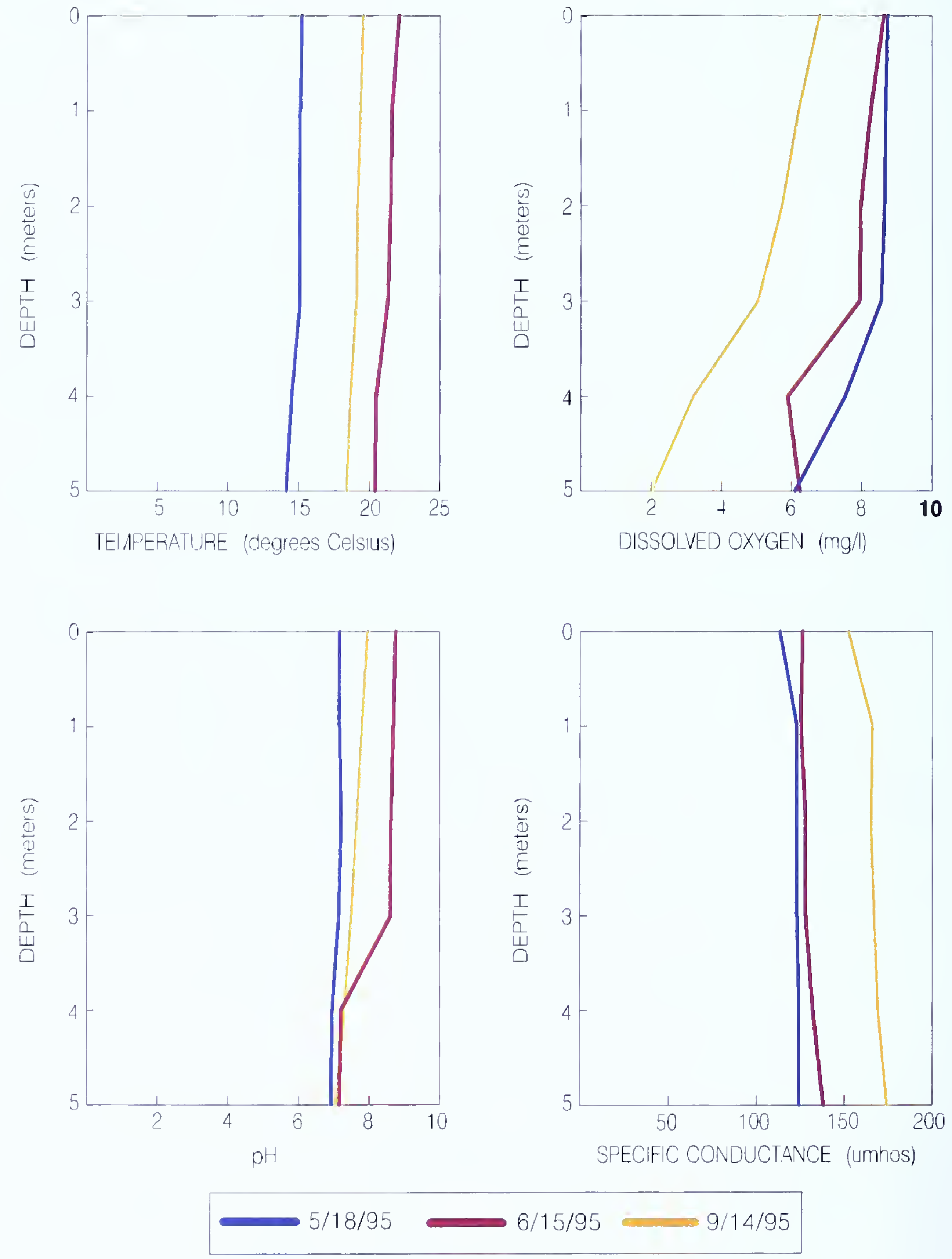

Figure 9. Temperature, Dissolved Oxygen, pH, and Specific Conductance Profiles for Hills Creek Lake

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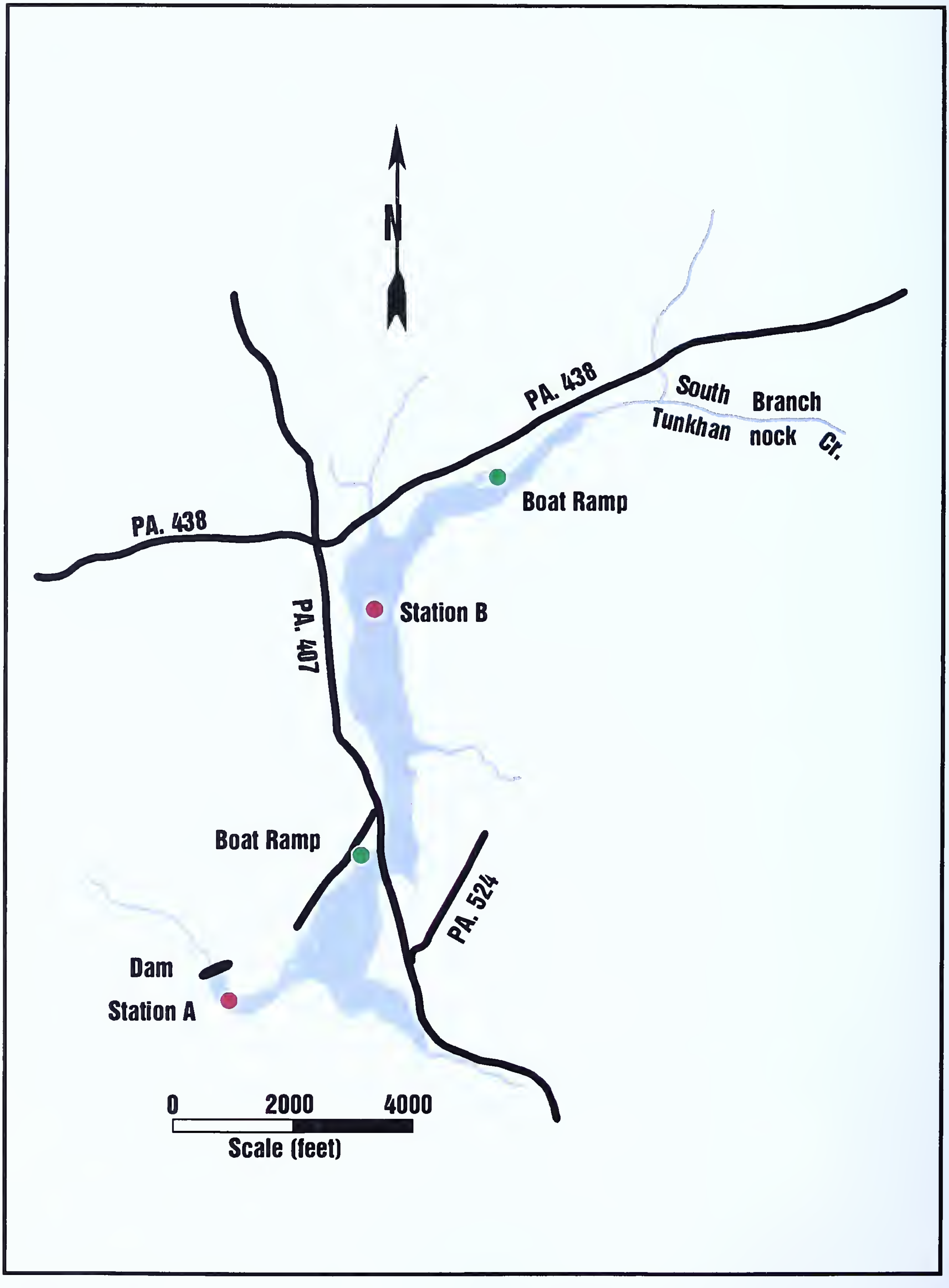

Figure 10. Map of Lackawanna Lake

LACKAWANNA LAKE

Location:

Approximately 1.0 miles south of Wallsville, Benton, and North Abington Townships, Lackawanna County (Figure 10); Lackawanna State Park; latitude 41°33'24", longitude 75°43'07"; South Branch Tunkhannock Creek; North Branch Susquehanna River Basin; 992 feet altitude; Dalton quadrangle (1:24,000).

Origin:

Artificial, built in 1970.

Ownership:

Commonwealth of Pennsylvania, Department of Conservation and Natural Resources.

Physical Characteristics of Lake:

Surface area:	202	acres (817,465 m^2)
Volume:	2,400	acre-feet (2,960,357 m^3)*
Mean depth:	11.9	feet (3.6 m)*
Maximum depth:	38.0	feet (11.6 m)*
Length of shoreline:	7.2	miles (11.6 km)

Drainage Basin Characteristics:

Size:	44.9 mi^2 (116.3 km^2)
Geology:	Late Devonian age sandstone and shale
Soils:	Lordstown-Oquaga intergrade silt loam formed on Wisconsin age till

Land use:

1981*		1992 (EMAP)	
Urban	0%	Developed–high intensity	0%
Suburban	1%	Developed–low intensity	2.9%
Agricultural	50%	Herbaceous	54.3%
Forest or undeveloped	48%	Woody	40.8%
Lake surface	1%	Exposed	<0.1%
		Water	2.1%

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* Source: Ulanoski, J.T., R.H. Shertzer, J.L. Barker, and R.T. Hartman. 1981. Trophic Classification and Characteristics of Twenty-Six Publicly Owned Pennsylvania Lakes. Bureau of Water Quality Management, Pa. Department of Environmental Resources, Publication No. 61, 240 pp.

Near-shore Development:

Number of near-shore homes: 75.

Recreational Facilities:

Two public boat launching areas (qualified nonpowered or electric motors only), picnic area, swimming area, hiking trails, boat rental, handicapped access is available.

Hydrology:

The lake is fed by several inflows, with South Branch Tunkhannock Creek being the largest. The outflow is to the South Branch Tunkhannock Creek. Mean hydraulic retention time* is calculated to be 18 days.

Point Source Waste Discharges in Watershed:

Discharger	NPDES #	Stream Name
Grumman Aerospace Corp.	PA0061484	Unnamed trib. South Branch Tunkhannock Creek
Lakeland School District	PA0040690	Unnamed trib. South Branch Tunkhannock Creek
Pennsylvania Department of Transportation	PA0035637	Unnamed trib. South Branch Tunkhannock Creek
Pennsylvania Department of Conservation and Natural Resources	PA0032140	South Branch Tunkhannock Creek
Pharmakon Research International, Inc.	PA0061140	Unnamed trib. South Branch Tunkhannock Creek

Nonpoint Pollution Sources:

Over half of the watershed is devoted to agricultural land uses, generating nutrient and sediment runoff.

Potential Local Interest Resources:

Lackawanna County Conservation District
395 Bedford Street
Clarks Summit, PA 18411
(717) 587-2607

Lackawanna County Regional Planning Commission
200 Adams Avenue
Scranton, PA 18503
(717) 963-6826

PA Federation of Sportsmen's Clubs
Robert E. Dickinson
R.D. 2, Box 249
Dalton, PA 18414-9802

PA Federation of Sportsmen's Clubs
Michael Pekar
1332 Penn Avenue
Scranton, PA 18509-2831

Water Quality:

Lackawanna Lake is a relatively deep reservoir that has limited thermal and chemical stratification (Figure 11). The lake is located in Lackawanna State Park, and the shoreline is developed with public boat launches, picnic areas, and swimming areas. The shallow areas of the lake support some rooted aquatic vegetation that may restrict boating activity. Previous studies (Barker, 1978; Ulanoski and others, 1981) reported good water quality and moderate to high fertility.

The water quality in Lackawanna Lake is presently good (Tables 14A and 14B). In summer, dissolved oxygen concentrations begin to decrease at a depth of 3 meters and are depleted below a depth of 5 meters. Nutrient concentrations are slightly elevated, and may lead to some aquatic plant growth. The ratio of total nitrogen to total phosphorus is 13.2 to 1 in Lackawanna Lake. This indicates that the growth of algae and other aquatic plants is limited by the total phosphorus concentrations. High iron and manganese concentrations were observed at the bottom of the lake during the summer.

Lackawanna Lake is a productive lake with a healthy biota. TSI values ranged from 57 to 63 for total phosphorus concentrations. The range of TSI values for chlorophyll *a* were 48 to 54 in the lake. These values suggest that Lackawanna Lake is eutrophic.

Table 14A. Water Quality Results for Lackawanna Lake, Station A

STORET Code	Parameter	Units	4/24/95		6/5/95		8/29/95	
			1.0 meter	9.0 meters	1.0 meter	9.0 meters	1.0 meter	9.0 meters
00010	Temperature	°C	13.70	8.00	22.30	13.80	24.10	19.20
00400	pH	su	8.95	8.05	8.72	7.35	8.78	7.56
00300	Dissolved Oxygen	mg/l	13.98	11.02	7.65	2.93	5.59	0.83
00094	Specific Conductance	umhos/cm	155.00	162.00	172.00	177.00	192.00	218.00
	Secchi Depth	meters	1.50		2.90		1.60	
00080	Color	pt/c	30.0000	25.0000	20.0000	20.0000	20.0000	60.0000
00410	Alkalinity	mg/l	30.0000	26.0000	36.0000	38.0000	44.0000	60.0000
00515	Solids - Dissolved	mg/l	84.0000	104.0000	90.0000	100.0000	148.0000	132.0000
00600A	Nitrogen - Total	mg/l	0.5000	0.6700	0.4700	0.7000	0.9100	1.3500
00610A	Ammonia - Total	mg/l	< 0.0200	0.0900	0.0300	0.2000	0.0400	0.7700
00615A	Nitrite - Total	mg/l	0.0080	0.0060	0.0120	0.0120	0.0060	0.0040
00620A	Nitrate - Total	mg/l	0.0400	0.2800	0.0600	0.0600	< 0.0400	< 0.0400
00665A	Phosphorus - Total	mg/l	0.0400	0.0400	0.0400	0.0400	0.0600	0.1800
00671A	Ortho Phosphorus - Dissolved	mg/l	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	0.0770
00680	Organic Carbon - Total	mg/l	3.1000	3.0000	4.0000	3.4000	6.2000	4.9000
00900A	Hardness - Total	mg/l	40.0000	40.0000	43.0000	48.0000	48.0000	58.0000
00915A	Calcium - Dissolved	mg/l	14.3000	13.7000	17.5000	17.9000	19.2000	20.9000
00925A	Magnesium - Dissolved	mg/l	1.5900	1.5300	1.9800	1.9700	2.3900	2.1100
00930A	Sodium - Dissolved	mg/l	10.5000	10.3000	10.9000	11.0000	12.1000	11.9000
00935A	Potassium - Dissolved	mg/l	2.0400	1.6000	1.8000	1.3800	1.9800	2.0400
00946	Sulfate - Dissolved	mg/l	13.3000	13.5000	12.3000	12.8000	10.6000	6.1000
00950	Fluoride - Dissolved	mg/l	< 0.2000	< 0.2000	< 0.2000	< 0.2000	< 0.2000	< 0.2000
00955A	Silicon	mg/l	< 1.0700	2.1400	2.5680	2.6108	2.3754	2.8034
01046A	Iron - Dissolved	µg/l	14.0000	28.0000	72.0000	64.0000	97.0000	2,110.0000
01056A	Manganese - Dissolved	µg/l	< 10.0000	110.0000	73.0000	592.0000	14.0000	2,430.0000
32230	Chlorophyll *a*	mg/l	0.0098	Not Sampled	0.0000	Not Sampled	0.0176	Not Sampled
70507A	Ortho Phosphorus - Total	mg/l	0.0050	0.0030	0.0090	0.0080	0.0030	0.0920
82295A	Chloride - Dissolved	µg/l	17,000.0000	18,000.0000	18,000.0000	19,000.0000	21,000.0000	19,000.0000

Table 14B. Water Quality Results for Lackawanna Lake, Station B

STORET Code	Parameter	Units	4/24/95	6/5/95	8/29/95
			1.0 meter	1.0 meter	1.0 meter
00010	Temperature	°C	11.70	21.60	23.50
00400	pH	su	8.53	8.50	8.81
00300	Dissolved Oxygen	mg/l	14.30	7.33	6.35
00094	Specific Conductance	umhos/cm	154.00	172.00	194.00
	Secchi Depth	meters	2.00	3.35	0.97
00080	Color	pt/c	30.0000	20.0000	25.0000
00410	Alkalinity	mg/l	30.0000	38.0000	46.0000
00515	Solids - Dissolved	mg/l	98.0000	86.0000	144.0000
00600A	Nitrogen - Total	mg/l	0.5000	0.5300	0.8800
00610A	Ammonia - Total	mg/l	0.0200	0.0200	0.0200
00615A	Nitrite - Total	mg/l	0.0080	0.0120	0.0040
00620A	Nitrate - Total	mg/l	0.0800	0.0800	<0.0400
00665A	Phosphorus - Total	mg/l	0.0500	0.0400	0.0600
00671A	Ortho Phosphorus - Dissolved	mg/l	<0.0020	<0.0020	<0.0020
00680	Organic Carbon - Total	mg/l	2.9000	4.0000	6.4000
00900A	Hardness - Total	mg/l	39.0000	42.0000	49.0000
00915A	Calcium - Dissolved	mg/l	14.2000	17.7000	19.0000
00925A	Magnesium - Dissolved	mg/l	1.5500	1.9000	2.1200
00930A	Sodium - Dissolved	mg/l	9.6900	10.7000	12.6000
00935A	Potassium - Dissolved	mg/l	1.5700	1.4400	2.0200
00946	Sulfate - Dissolved	mg/l	13.4000	11.8000	10.1000
00950	Fluoride - Dissolved	mg/l	<0.2000	<0.2000	<0.2000
00955A	Silicon	mg/l	1.3375	2.5038	2.3112
01046A	Iron - Dissolved	µg/l	25.0000	109.0000	102.0000
01056A	Manganese - Dissolved	µg/l	24.0000	200.0000	192.0000
32230	Chlorophyll *a*	mg/l	Not Sampled	Not Sampled	Not Sampled
70507A	Ortho Phosphorus - Total	mg/l	0.0100	0.0090	0.0050
82295A	Chloride - Dissolved	µg/l	16,000.0000	17,000.0000	21,000.0000

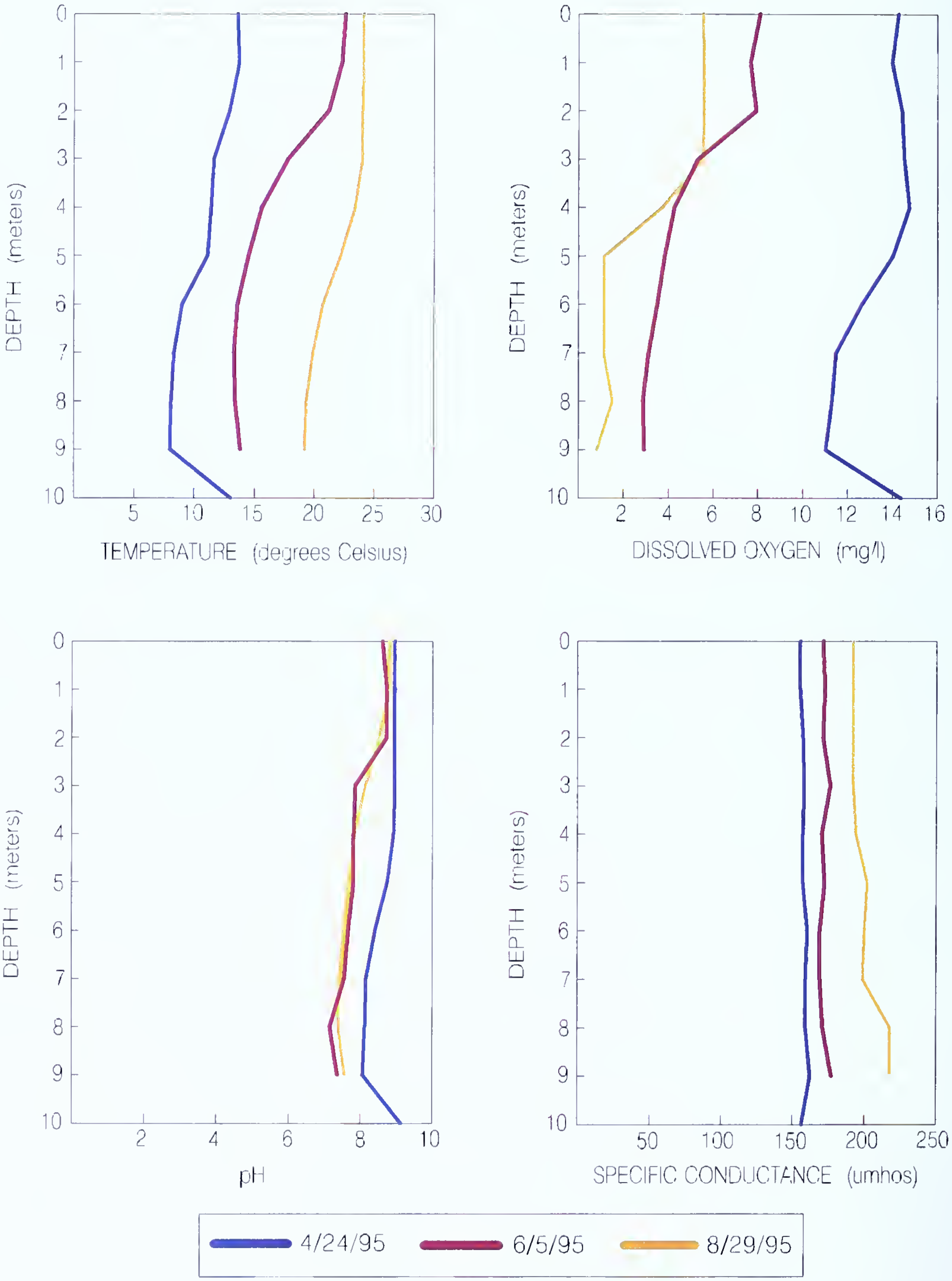

Figure 11. Temperature, Dissolved Oxygen, pH, and Specific Conductance Profiles for Lackawanna Lake

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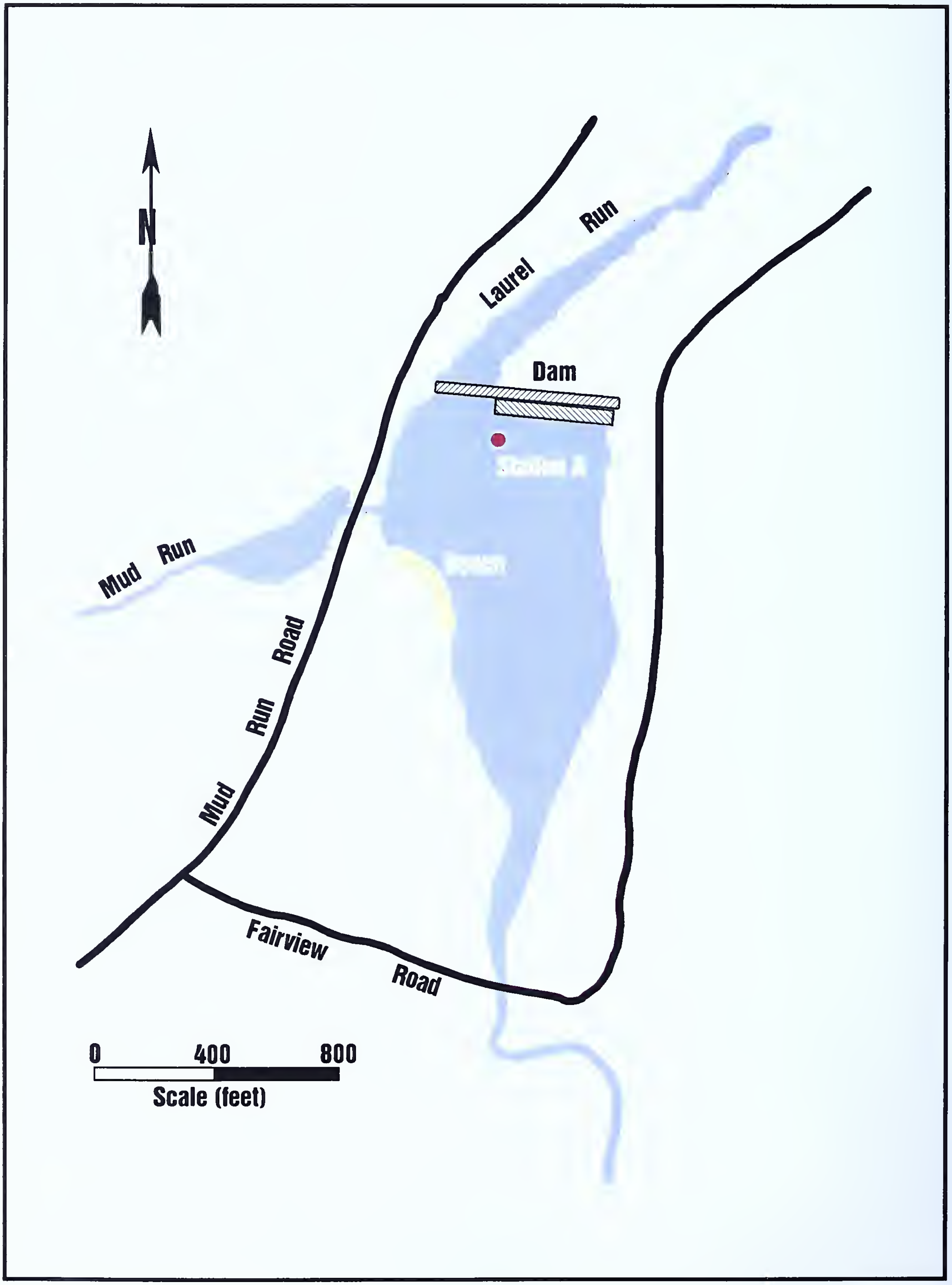

Figure 12. Map of Parker Dam Lake

PARKER DAM LAKE

Location:

Approximately 4.0 miles south of Tyler, Huston Township, Clearfield County (Figure 12); Parker Dam State Park; latitude 41°11'53", longitude 78°30'31"; Laurel Run Basin, tributary to the Bennett Branch Sinnemahoning Creek, West Branch Susquehanna River Basin; 1,589 feet altitude; Pennfield and Elliot Park quadrangles (1:24,000).

Origin:

Artificial, dam originally constructed prior to 1899, the existing dam was constructed by the Civilian Conservation Corps in 1936.

Ownership:

Commonwealth of Pennsylvania, Department of Conservation and Natural Resources.

Physical Characteristics of Lake:

Surface area:	19.5	acres (78,914 m^2)
Volume:	70	acre-feet (86,344 m^3)*
Mean depth:	3.6	feet (1.1 m)*
Maximum depth:	6.0	feet (1.8 m)*
Length of shoreline:	0.84	miles (1.4 km)

Drainage Basin Characteristics:

Size: 18.0 mi^2 (46.6 km^2)
Geology: Sandstone, shale and siltstones and conglomerate of Pennsylvanian Age
Soils: Residual sandy loam
Land use:

1981*		1992 (EMAP)	
Urban	0%	Developed–high intensity	0%
Suburban	0%	Developed–low intensity	0.2%
Agricultural	0%	Herbaceous	94.1%
Forest or undeveloped	99%	Woody	5.5%
Lake surface	1%	Exposed	0%
		Water	0.2%

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* Source: Ulanoski, J.T., R.H. Shertzer, J.L. Barker, and R.T. Hartman. 1981. Trophic Classification and Characteristics of Twenty-Six Publicly Owned Pennsylvania Lakes. Bureau of Water Quality Management, Pa. Department of Environmental Resources, Publication No. 61, 240 pp.

Near-shore Development:

Number of near-shore homes: 0.

Recreational Facilities:

Boat launch from roadway (qualified nonpowered boats only), swimming beach.

Hydrology:

The lake is fed by inflows from Laurel Run, Little Laurel Run, and Mud Run. The outflow is to Laurel Run. Mean hydraulic retention time* is calculated to be 1 day.

Point Source Waste Discharges in Watershed:

Discharger	NPDES #	Stream Name
Pennsylvania Department of Conservation and Natural Resources	PA0044245	Laurel Run

Nonpoint Pollution Sources:

The watershed is largely undeveloped land; some strip mining of coal occurred in the past. This lake is easily affected by organic materials and sediments.

Potential Local Interest Resources:

Clearfield County Conservation District
650 Leonard Street
Clearfield, PA. 16830
(814) 765-2629

Clearfield County Planning Commission
P.O. Box 868
Clearfield, PA 16830-0868
(814) 765-2633

PA Federation of Sportsmen's Clubs
Paul R. Lilja
R.D. 3, Box 229A
Coudersport, PA 16915

Water Quality:

Parker Dam Lake is a shallow reservoir that is located in a forested area. Earlier studies conducted by Ulanoski and others (1981) and Barker (1978) indicate that the underlying geology in the basin provides limited nutrients and alkalinity to the lake. They reported that the lake cannot neutralize the acidic swamp water that is discharged from the upper basin during periods of runoff. This results in an infertile lake. Occasional fish kills of stocked trout occur.

Parker Dam Lake does not stratify thermally or chemically because of shallowness and high flushing rate. Dissolved oxygen concentrations remain constant from the surface to the bottom. The lake continues to have problems with low alkalinity (Table 15). Alkalinity concentrations were well below the Pennsylvania state standard of 20 mg/l. The alkalinities ranged from 3.6 mg/l to 10.6 mg/l during the sampling period. The lake also has low concentrations of dissolved solids, hardness, and specific conductance. The water quality in Parker Dam Lake continues to suffer from the natural limitations of its location.

TSI values for Parker Dam lake ranged from 48 to 57 based on chlorophyll *a* and total phosphorus. The mean TSI score was 53 based on total phosphorus concentrations. Parker Dam Lake is in a mesotrophic to slightly eutrophic state.

Table 15. Water Quality Results for Parker Lake, Station A

STORET Code	Parameter	Units	5/17/95 1.0 meter	6/14/95 1.0 meter	9/13/95 1.0 meter
00010	Temperature	°C	14.10	15.80	19.20
00400	pH	su	7.15	6.55	7.55
00300	Dissolved Oxygen	mg/l	9.92	6.65	6.18
00094	Specific Conductance	umhos/cm	70.00	71.00	64.00
	Secchi Depth	meters	1.83	1.83	1.07
00080	Color	pt/c	15.0000	30.0000	40.0000
00410	Alkalinity	mg/l	3.6000	7.4000	10.6000
00515	Solids - Dissolved	mg/l	40.0000	74.0000	94.0000
00600A	Nitrogen - Total	mg/l	40.0000	0.3200	0.4100
00610A	Ammonia - Total	mg/l	0.0200	< 0.0200	0.0700
00615A	Nitrite - Total	mg/l	0.0000	0.0040	0.0040
00620A	Nitrate - Total	mg/l	< 0.0400	0.0900	0.0400
00665A	Phosphorus - Total	mg/l	0.0200	0.0400	0.0300
00671A	Ortho Phosphorus - Dissolved	mg/l	< 0.0020	< 0.0020	NA
00680	Organic Carbon - Total	mg/l	2.3000	3.4000	4.0000
00900A	Hardness - Total	mg/l	23.0000	20.0000	21.0000
00915A	Calcium - Dissolved	mg/l	3.8700	5.8300	4.7000
00925A	Magnesium - Dissolved	mg/l	1.7800	2.2900	1.9700
00930A	Sodium - Dissolved	mg/l	1.4200	2.5100	2.3900
00935A	Potassium - Dissolved	mg/l	5.0500	0.6540	1.5900
00946	Sulfate - Dissolved	mg/l	16.1000	17.1000	11.9000
00950	Fluoride - Dissolved	mg/l	< 0.2000	< 0.2000	< 0.2000
00955A	Silicon	mg/l	3.9162	4.1944	< 1.0700
01046A	Iron - Dissolved	µg/l	147.0000	387.0000	705.0000
01056A	Manganese - Dissolved	µg/l	123.0000	193.0000	95.0000
32230	Chlorophyll *a*	mg/l	0.0000	0.0400	0.0056
70507A	Ortho Phosphorus - Total	mg/l	0.0030	< 0.0020	NA
82295A	Chloride - Dissolved	µg/l	4,000.0000	3,000.0000	3,000.0000

NA = not available

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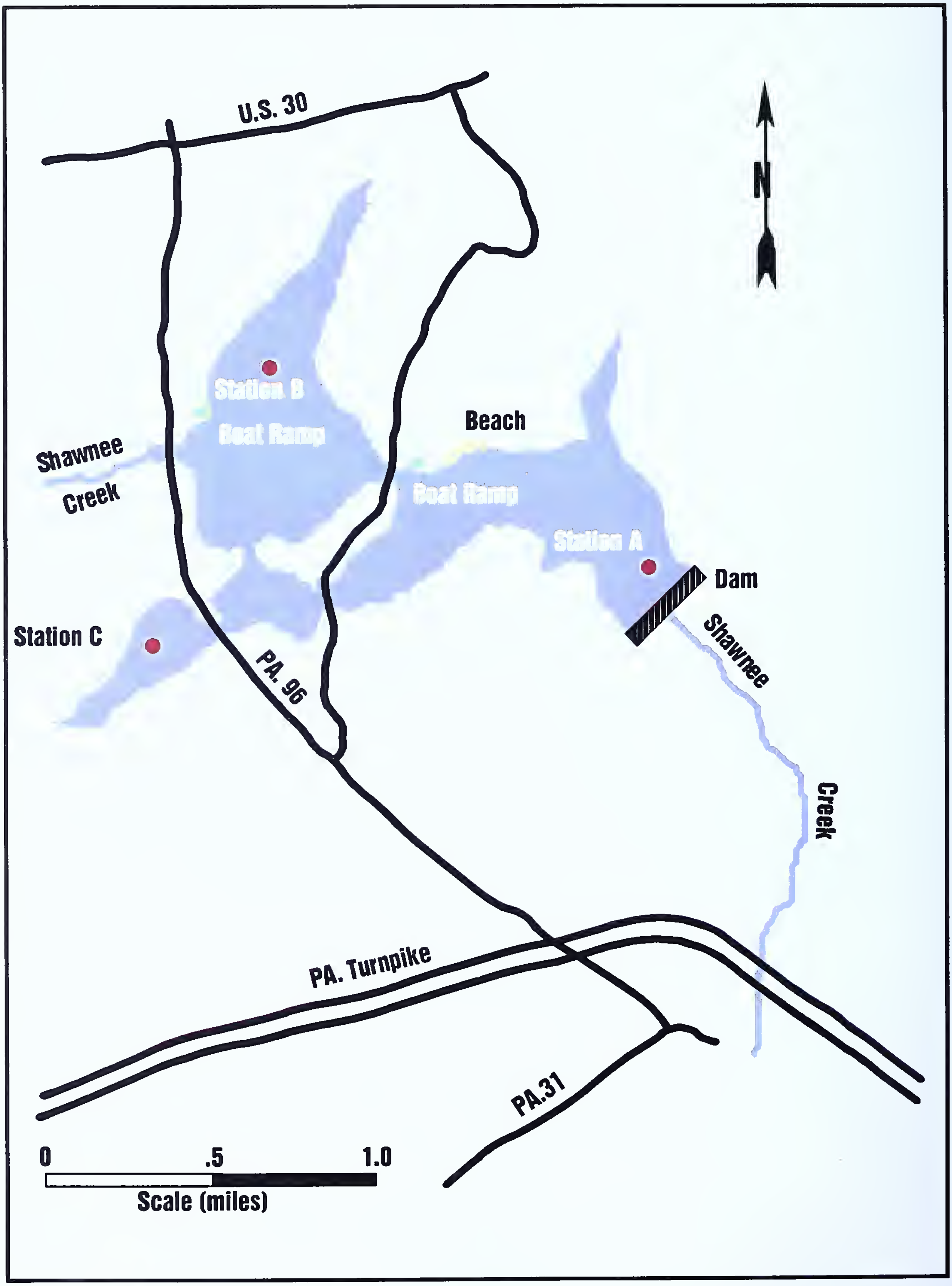

Figure 13. Map of Shawnee Lake

SHAWNEE LAKE

Location:

Approximately 1.0 miles south of Schellsburg, Juniata Township, Bedford County (Figure 13): Shawnee State Park; latitude 40°01’53”, longitude 78°37’10”; Raystown Branch Juniata River, Susquehanna River Basin; 1,107 feet altitude; Bedford and Schellsburg quadrangles (1:24,000).

Origin:

Artificial, built in 1950.

Ownership:

Commonwealth of Pennsylvania, Department of Conservation and Natural Resources.

Physical Characteristics of Lake:

Surface area:	451	acres (1,825,132 m^2)
Volume:	3,750	acre-feet (4,625,558 m^3)*
Mean depth:	8.3	feet (2.5 m)*
Maximum depth:	31	feet (9.5 m)*
Length of shoreline:	8.6	miles (13.8 km)

Drainage Basin Characteristics:

Size: 37.5 mi^2 (97.1 km^2)

Geology: Sandstone, shale, limestone and conglomerate of Devonian age

Soils: Primarily sandy and silt loams formed on shale and sandstones

Land use:

1981*		1992 (EMAP)	
Urban	0%	Developed–high intensity	0%
Suburban	1%	Developed–low intensity	0.6%
Agricultural	40%	Herbaceous	66.9%
Forest or undeveloped	57%	Woody	29.3%
Lake surface	2%	Exposed	0%
		Water	2.0%
		Unknown	1.0%

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* Source: Ulanoski, J.T., R.H. Shertzer, J.L. Barker, and R.T. Hartman. 1981. Trophic Classification and Characteristics of Twenty-Six Publicly Owned Pennsylvania Lakes. Bureau of Water Quality Management, Pa. Department of Environmental Resources, Publication No. 61, 240 pp.

Near-shore Development:

Number of near-shore homes: 117.

Recreational Facilities:

Boat launch and mooring site (qualified nonpowered or electric motors only), boat rental, swimming beach, and picnic areas.

Hydrology:

The lake is fed by several inflows, the two largest being Kegg Run and Shawnee Branch. The outflow is to Shawnee Branch. Mean hydraulic retention time* is calculated to be 47 days.

Point Source Waste Discharges in Watershed:

Discharger	NPDES #	Stream Name
William Hillegass	PA0110400	Shawnee Lake
Shawnee Valley Ambulance Assoc.	PA0081931	Shawnee Creek
United Church of Christ Penn West Conf.	PA0029041	Shawnee Creek
Pennsylvania Department of Conservation and Natural Resources	PA0032039	Shawnee Creek

Nonpoint Pollution Sources:

The watershed is largely agricultural land, possibly generating nutrient and sediment runoff.

Potential Local Interest Resources:

Bedford County Conservation District
702 West Pitt Street
Fairlawn Court, Suite 4
Bedford, PA 15522
(814) 623-6706

Bedford County Planning Commission
Russell Building, Annex No. 3
203 South Juliana Street
Bedford, PA 15522
(814) 623-4827

PA Federation of Sportsmen's Clubs
John J. Flick
1604 Brubaker St., Apt. A
Berlin, PA 15530

Water Quality:

Shawnee Lake is a moderately deep reservoir that is located in Shawnee State Park. The shoreline of the lake is partially developed with boat launches, picnic areas, and a beach. Aquatic weeds grow in most of the shallow areas of the lake and can inhibit fishing and boating. A 1981 Pa. DER survey (Ulanoski and others, 1981) indicated good water quality and a healthy biota in Shawnee Lake.

The water quality of Shawnee Lake is good (Tables 16A, 16B, 16C). The lake stratifies thermally and chemically during the summer months (Figure 14). Dissolved oxygen is rapidly depleted below a depth of 4 meters. The water of the hypolimnion is slightly colored and contains hydrogen sulfide. Nutrient concentrations are slightly high and increase with depth. The nutrient concentrations contribute to the growth of algae and rooted aquatic vegetation in the lake. The state park, in cooperation with the Pennsylvania Fish and Boat Commission, performs occasional water level drawdowns in Shawnee Lake to control the growth of aquatic plants. Drawdowns have been performed on a 3-year cycle that began in the winter of 1983. The lake is closed to fishing during these drawdowns.

Shawnee Lake is very productive and contains a healthy biota. Trophic State Index (TSI) values based on total phosphorus and chlorophyll *a* ranged from 48 to 60 in the lake. The range of TSI values for Shawnee Lake indicate that it is eutrophic.

Table 16A. Water Quality Results for Shawnee Lake, Station A

STORET Code	Parameter	Units	5/16/95		6/13/95		9/12/95	
			1.0 meter	7.0 meters	1.0 meter	7.0 meters	1.0 meter	7.0 meters
00010	Temperature	°C	16.80	14.20	23.60	16.70	21.70	17.90
00400	pH	su	7.52	6.98	8.35	6.80	8.65	6.83
00300	Dissolved Oxygen	mg/l	9.26	6.14	6.96	1.18	6.35	1.31
00094	Specific Conductance	umhos/cm	143.00	145.00	139.00	152.00	161.00	201.00
	Secchi Depth	meters	3.00		3.50		1.42	
00080	Color	pt/c	25.0000	25.0000	15.0000	20.0000	5.0000	70.0000
00410	Alkalinity	mg/l	28.0000	30.0000	30.0000	38.0000	44.0000	76.0000
00515	Solids - Dissolved	mg/l	94.0000	176.0000	104.0000	102.0000	104.0000	164.0000
00600A	Nitrogen - Total	mg/l	0.7000	0.7600	0.6500	0.9400	0.6450	1.9900
00610A	Ammonia - Total	mg/l	0.0500	0.0900	0.0300	0.3400	0.0300	1.4600
00615A	Nitrite - Total	mg/l	0.0100	0.0140	0.0120	0.0200	< 0.0040	0.0040
00620A	Nitrate - Total	mg/l	0.3900	0.3900	0.3200	0.2200	< 0.0400	< 0.0400
00665A	Phosphorus - Total	mg/l	0.0400	0.0400	0.0300	0.0400	0.0400	0.2100
00671A	Ortho Phosphorus - Dissolved	mg/l	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	0.1230
00680	Organic Carbon - Total	mg/l	2.6000	2.6000	3.4000	4.0000	5.7000	6.3000
00900A	Hardness - Total	mg/l	46.0000	47.0000	43.0000	48.0000	59.0000	65.0000
00915A	Calcium - Dissolved	mg/l	14.5000	13.8000	12.8000	14.8000	16.3000	12.7000
00925A	Magnesium - Dissolved	mg/l	3.7700	3.5700	3.3300	3.7900	3.7300	2.7600
00930A	Sodium - Dissolved	mg/l	6.1000	5.4200	4.6400	4.8900	4.8000	3.3600
00935A	Potassium - Dissolved	mg/l	1.5600	1.4300	1.7100	1.6300	1.4200	1.9400
00946	Sulfate - Dissolved	mg/l	19.4000	19.2000	17.1000	16.1000	18.2500	1.7000
00950	Fluoride - Dissolved	mg/l	< 0.2000	< 0.2000	< 0.2000	< 0.2000	< 0.2000	< 0.2000
00955A	Silicon	mg/l	4.9220	5.3286	3.4240	6.3986	4.6759	8.2818
01046A	Iron - Dissolved	µg/l	129.0000	107.0000	53.0000	104.0000	59.5000	2,830.0000
01056A	Manganese - Dissolved	µg/l	39.0000	96.0000	27.0000	1,050.0000	24.5000	1,780.0000
32230	Chlorophyll *a*	mg/l	0.0000	Not Sampled	0.0057	Not Sampled	0.0205	Not Sampled
70507A	Ortho Phosphorus - Total	mg/l	0.0070	0.0100	< 0.0020	< 0.0020	< 0.0020	0.1310
82295A	Chloride - Dissolved	µg/l	8,000.0000	9,000.0000	8,000.0000	7,000.0000	7,500.0000	7,000.0000

Table 16B. Water Quality Results for Shawnee Lake, Station B

STORET Code	Parameter	Units	5/16/95	6/13/95	9/12/95
			1.0 meter	1.0 meter	1.0 meter
00010	Temperature	°C	16.70	22.90	21.50
00400	pH	su	7.05	8.40	8.95
00300	Dissolved Oxygen	mg/l	8.31	7.14	6.97
00094	Specific Conductance	umhos/cm	150.00	145.00	161.00
	Secchi Depth	meters	1.25	2.00	1.00
00080	Color	pt/c	30.0000	15.0000	5.0000
00410	Alkalinity	mg/l	32.0000	32.0000	42.0000
00515	Solids - Dissolved	mg/l	100.0000	100.0000	148.0000
00600A	Nitrogen - Total	mg/l	0.8800	0.7900	0.7300
00610A	Ammonia - Total	mg/l	0.0900	<0.0200	<0.0200
00615A	Nitrite - Total	mg/l	0.0120	0.0180	0.0040
00620A	Nitrate - Total	mg/l	0.3900	0.4200	<0.0400
00665A	Phosphorus - Total	mg/l	0.0500	0.0400	0.0500
00671A	Ortho Phosphorus - Dissolved	mg/l	0.0020	0.1490	<0.0020
00680	Organic Carbon - Total	mg/l	3.7000	3.7000	5.7000
00900A	Hardness - Total	mg/l	49.0000	48.0000	56.0000
00915A	Calcium - Dissolved	mg/l	15.6000	14.9000	18.7000
00925A	Magnesium - Dissolved	mg/l	3.8100	3.6200	4.3300
00930A	Sodium - Dissolved	mg/l	5.5600	4.9000	4.9600
00935A	Potassium - Dissolved	mg/l	1.8300	1.8300	1.2400
00946	Sulfate - Dissolved	mg/l	19.3000	17.3000	19.0000
00950	Fluoride - Dissolved	mg/l	<0.2000	<0.2000	<0.2000
00955A	Silicon	mg/l	4.8364	3.1886	4.5368
01046A	Iron - Dissolved	µg/l	215.0000	76.0000	70.0000
01056A	Manganese - Dissolved	µg/l	72.0000	<10.0000	11.0000
32230	Chlorophyll *a*	mg/l	Not Sampled	Not Sampled	Not Sampled
70507A	Ortho Phosphorus - Total	mg/l	0.0090	<0.0020	0.0050
82295A	Chloride - Dissolved	µg/l	8,000.0000	8,000.0000	8,000.0000

Table 16C. Water Quality Results for Shawnee Lake, Station C

STORET Code	Parameter	Units	5/16/95	6/13/95	9/12/95
			1.0 meter	1.0 meter	1.0 meter
00010	Temperature	°C	15.80	21.80	20.40
00400	pH	su	7.05	7.45	8.95
00300	Dissolved Oxygen	mg/l	9.31	6.30	6.52
00094	Specific Conductance	umhos/cm	105.00	127.00	157.00
	Secchi Depth	meters	0.50	1.52	0.81
00080	Color	pt/c	40.0000	30.0000	5.0000
00410	Alkalinity	mg/l	18.8000	28.0000	42.0000
00515	Solids - Dissolved	mg/l	100.0000	76.0000	118.0000
00600A	Nitrogen - Total	mg/l	0.7900	0.7900	0.6700
00610A	Ammonia - Total	mg/l	0.0600	0.0900	<0.0200
00615A	Nitrite - Total	mg/l	0.0080	0.0120	<0.0040
00620A	Nitrate - Total	mg/l	0.3200	0.2300	<0.0400
00665A	Phosphorus - Total	mg/l	0.0600	0.0500	0.0500
00671A	Ortho Phosphorus - Dissolved	mg/l	0.0020	<0.0020	<0.0020
00680	Organic Carbon - Total	mg/l	3.6000	4.5000	5.5000
00900A	Hardness - Total	mg/l	28.0000	37.0000	56.0000
00915A	Calcium - Dissolved	mg/l	9.2800	12.4000	17.4000
00925A	Magnesium - Dissolved	mg/l	2.9000	3.4000	4.1900
00930A	Sodium - Dissolved	mg/l	4.8900	4.9600	5.0600
00935A	Potassium - Dissolved	mg/l	1.0500	1.8800	1.4200
00946	Sulfate - Dissolved	mg/l	15.3000	15.1000	18.0000
00950	Fluoride - Dissolved	mg/l	<0.2000	<0.2000	<0.2000
00955A	Silicon	mg/l	6.2916	3.9162	2.4610
01046A	Iron - Dissolved	µg/l	243.0000	244.0000	78.0000
01056A	Manganese - Dissolved	µg/l	83.0000	28.0000	15.0000
32230	Chlorophyll *a*	mg/l	Not Sampled	Not Sampled	Not Sampled
70507A	Ortho Phosphorus - Total	mg/l	0.0190	<0.0020	0.0050
82295A	Chloride - Dissolved	µg/l	6,000.0000	7,000.0000	8,000.0000

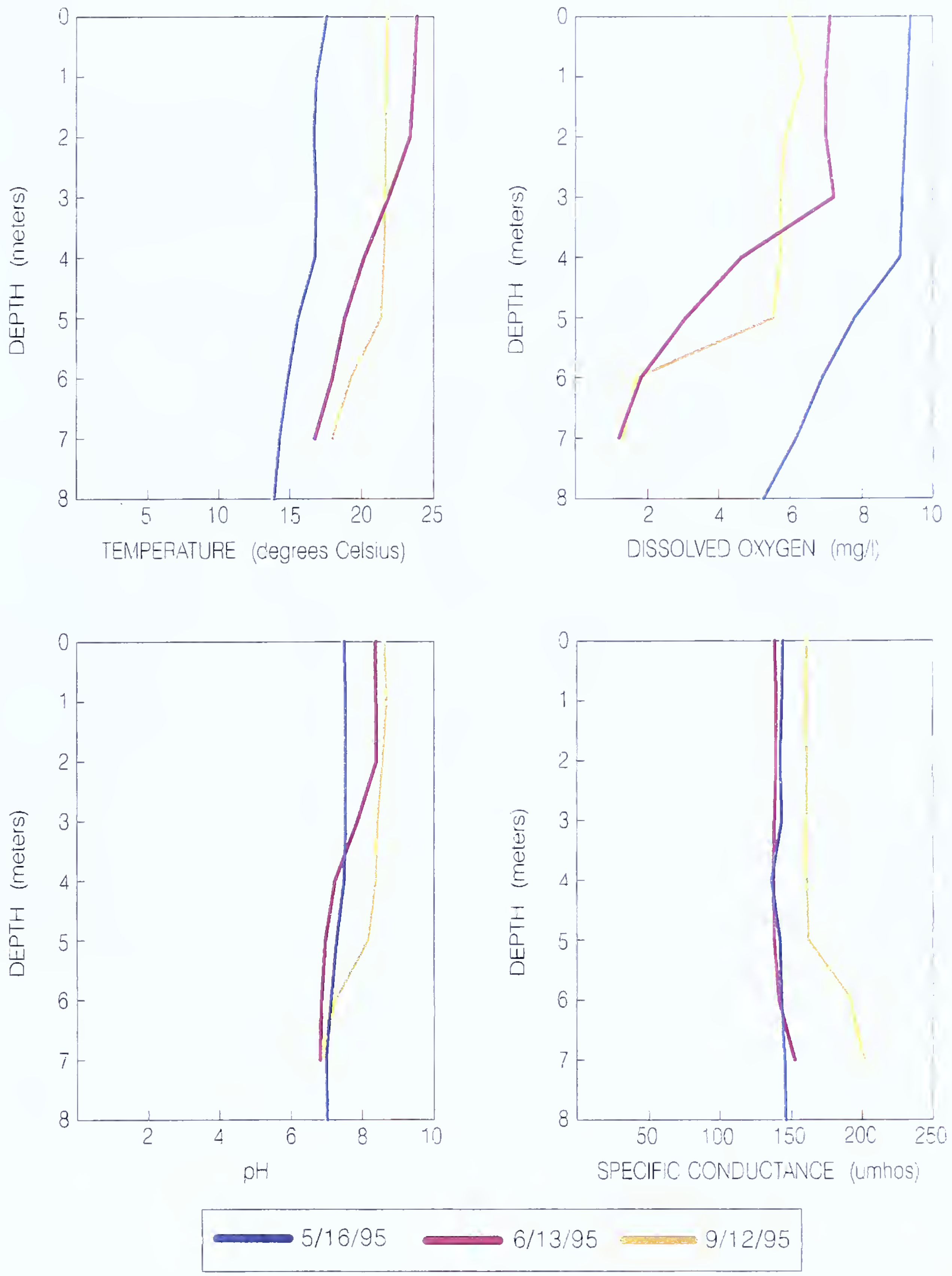

Figure 14. Temperature, Dissolved Oxygen, pH, and Specific Conductance Profiles for Shawnee Lake

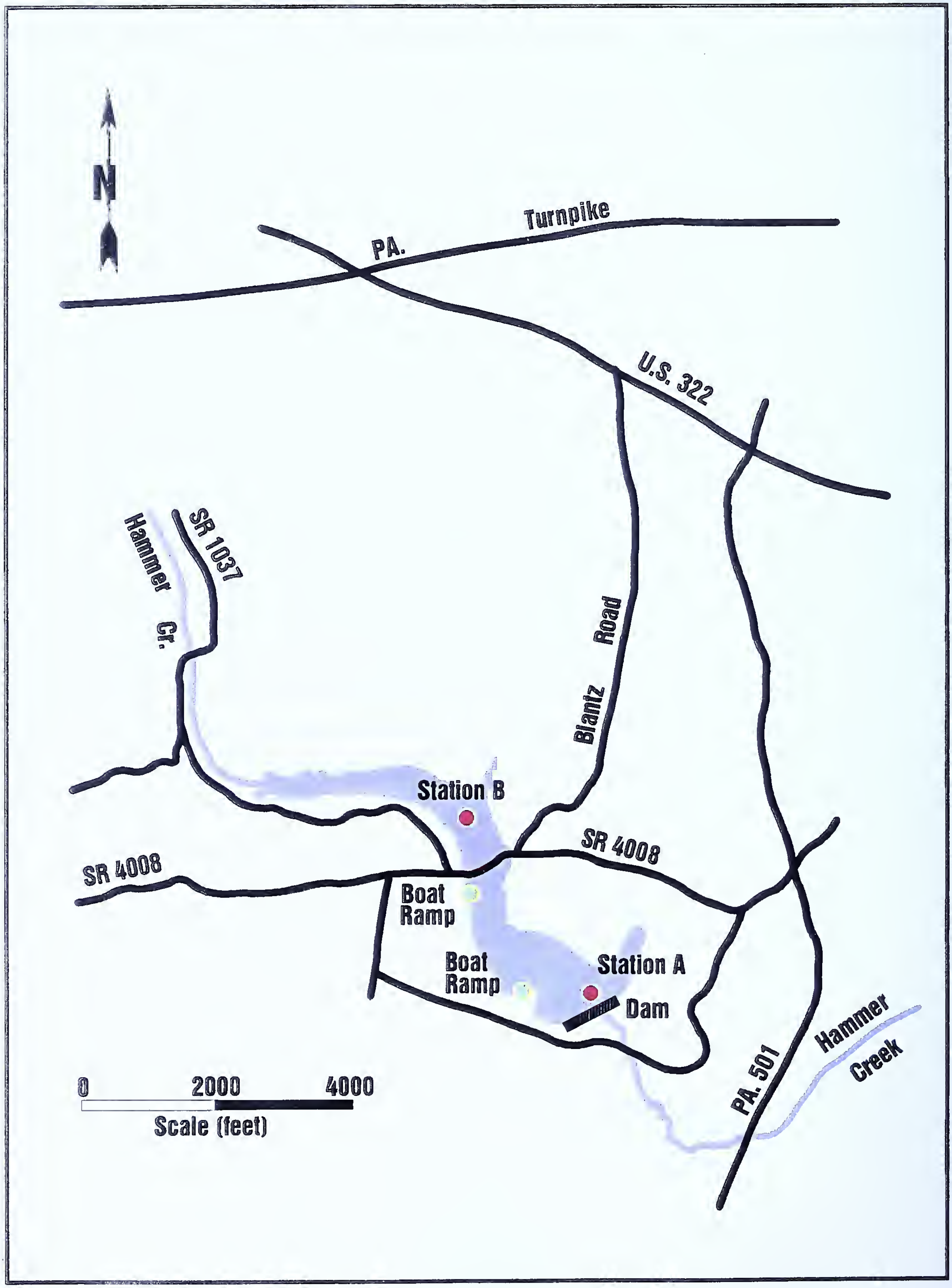

Figure 15. Map of Speedwell Forge Lake

SPEEDWELL FORGE LAKE

Location:

Approximately 6.0 miles northeast of Lititz, Elizabeth Township, Lancaster County (Figure 15): latitude 40°12'12", longitude 76°18'26"; Conestoga Creek basin tributary to the Susquehanna River Basin; 390 feet altitude; Lititz quadrangle (1:24,000).

Origin:

Artificial, built in 1969.

Ownership:

Commonwealth of Pennsylvania, Pennsylvania Fish and Boat Commission.

Physical Characteristics of Lake:

Surface area:	106	acres (428,967 m^2)
Volume:	850	acre-feet (1,048,460 m^3)*
Mean depth:	10.0	feet (3.0 m)*
Maximum depth:	29.0	feet (8.8 m)*
Length of shoreline:	2.7	miles (4.3 km)

Drainage Basin Characteristics:

Size:	24.7 mi^2 (63.9 km^2)
Geology:	Triassic diabase and shale, and Ordovician shales and dolomite
Soils:	Loam, shaley silt loam, and silt formed on Triassic sandstones and conglomerates: Triassic red shale, and Martinsburg shale, respectively

Land use:

1981*		1992 (EMAP)	
Urban	0%	Developed–high intensity	<0.1%
Suburban	4%	Developed–low intensity	2.8%
Agricultural	47%	Herbaceous	44.2%
Forest or undeveloped	48%	Woody	47.6%
Lake surface	1%	Exposed	<0.1%
		Water	0.6%
		Unknown	4.7%

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* Source: Ulanoski, J.T., R.H. Shertzer, J.L. Barker, and R.T. Hartman. 1981. Trophic Classification and Characteristics of Twenty-Six Publicly Owned Pennsylvania Lakes. Bureau of Water Quality Management, Pa. Department of Environmental Resources, Publication No. 61, 240 pp.

Near-shore Development:

Number of near-shore homes: approximately 22.

Recreational Facilities:

Public boat launch and mooring site (qualified nonpowered or electric motors only).

Hydrology:

The lake is fed by two streams, with Hammer Creek being the largest. The outflow is to Hammer Creek. Mean hydraulic retention time* is calculated to be 14 days.

Point Source Waste Discharges in Watershed:

None.

Nonpoint Pollution Sources:

Approximately 50 percent of the watershed is devoted to agricultural land uses, generating nutrient and sediment runoff.

Potential Local Interest Resources:

Lancaster County Conservation District
Room 6, Farm and Home Center
1383 Arcadia Road
Lancaster, PA 17601
(717) 299-5361

Lancaster County Planning Commission
P.O. Box 3480
Lancaster, PA 17604
(717) 299-8333

PA Federation of Sportsmen's Clubs
Howard E. Hilbush
R.R. 5, Box 5513
Mohnton, PA 19540

Manheim Sportsman's Club
R.D. # 4
Manheim, PA 17545
(717) 665-3311

Lititz Sportsmen's Association, Inc.
26 Whitcraft Drive
Lititz, PA 17543
(717) 626-4512

Conestoga Valley Association
6 Leaf Park
Lancaster, PA 17603

Water Quality:

Speedwell Forge Lake is a shallow reservoir that is located in an intensive agricultural area. Earlier studies found very high nutrient concentrations, heavy siltation in the upper part of the lake, and an excessive amount of aquatic vegetation.

Speedwell Forge Lake does not stratify thermally or chemically (Figure 16). Dissolved oxygen concentrations begin to drop just under the surface, and become depleted at a depth of 2 meters. The low dissolved oxygen values are attributed to organic material that decomposes at the bottom of the lake. As the organic material decomposes due to bacterial action, gases are released that can remove oxygen from the water.

Total nitrogen concentrations are extremely high and contribute to the growth of algae and rooted aquatic vegetation in Speedwell Forge Lake (Tables 17A and 17B). The ratio of total nitrogen to total phosphorus (Redfield ratio) is 45.7 to 1 in Speedwell Forge Lake. The ratio indicates that algal and plant growth is severely limited by total phosphorus concentrations. Increased concentrations of phosphorus could result in excessive algal blooms and plant growth in the lake. High dissolved solids were observed in Speedwell Forge Lake.

Sediment is being deposited in Speedwell Forge Lake at an alarming rate. The previous study (Ulanoski and others, 1981) reported that the maximum depth was 29 feet near the dam. During this survey, the maximum depth found in the lake was 21 feet. This suggests that sediment is being deposited at a rate of 7 inches per year.

The TSI values for the lake ranged from 65 to 77 based on total phosphorus and chlorophyll *a*. The TSI values indicate that Speedwell Forge Lake is extremely productive or hypereutrophic.

Table 17A. Water Quality Results for Speedwell Forge Lake, Station A

STORET Code	Parameter	Units	4/19/95		6/21/95		9/7/95	
			1.0 meter	5.0 meters	1.0 meter	5.0 meters	1.0 meter	5.0 meters
00010	Temperature	°C	12.50	9.50	24.80	17.10	23.90	22.50
00400	pH	su	8.80	8.10	8.70	7.55	7.85	7.15
00300	Dissolved Oxygen	mg/l	10.40	9.40	10.01	1.20	8.68	1.19
00094	Specific Conductance	umhos/cm	307.00	329.00	284.00	380.00	336.00	379.00
	Secchi Depth	meters	1.00		0.70		1.09	
00080	Color	pt/c	25.0000	25.0000	20.0000	40.0000	15.0000	10.0000
00410	Alkalinity	mg/l	100.0000	110.0000	88.0000	152.0000	114.0000	138.0000
00515	Solids - Dissolved	mg/l	254.0000	544.0000	192.0000	244.0000	218.0000	232.0000
00600A	Nitrogen - Total	mg/l	5.4500	5.6300	3.8700	2.3800	4.0500	4.0500
00610A	Ammonia - Total	mg/l	0.0300	0.1100	0.0200	1.5500	0.1600	0.6800
00615A	Nitrite - Total	mg/l	0.0320	0.0360	0.0540	0.0440	0.0420	0.0240
00620A	Nitrate - Total	mg/l	1.6900	4.7100	2.6800	0.1600	3.1700	2.7100
00665A	Phosphorus - Total	mg/l	0.0800	0.1000	0.1600	0.1300	0.0900	0.1100
00671A	Ortho Phosphorus - Dissolved	mg/l	< 0.0020	< 0.0020	0.0130	0.0140	0.0100	0.0050
00680	Organic Carbon - Total	mg/l	3.9000	3.7000	5.9000	5.3000	4.0000	3.9000
00900A	Hardness - Total	mg/l	141.0000	151.0000	149.0000	78.0000	141.0000	160.0000
00915A	Calcium - Dissolved	mg/l	38.2000	40.8000	30.3000	49.5000	34.4000	41.4000
00925A	Magnesium - Dissolved	mg/l	13.0000	12.9000	12.5000	12.9000	12.9000	13.4000
00930A	Sodium - Dissolved	mg/l	6.3900	6.1800	6.9500	7.2300	6.5000	6.6100
00935A	Potassium - Dissolved	mg/l	2.5200	2.4900	2.6800	3.9400	3.0300	3.0200
00946	Sulfate - Dissolved	mg/l	20.8000	20.9000	19.5000	14.5000	21.1000	20.9000
00950	Fluoride - Dissolved	mg/l	< 0.2000	< 0.2000	< 0.2000	< 0.2000	< 0.2000	< 0.2000
00955A	Silicon	mg/l	4.1516	5.3928	7.4900	11.3634	7.6184	8.8382
01046A	Iron - Dissolved	µg/l	23.0000	24.0000	< 10.0000	960.0000	74.0000	89.0000
01056A	Manganese - Dissolved	µg/l	< 10.0000	23.0000	< 10.0000	1790.0000	37.0000	514.0000
32230	Chlorophyll *a*	mg/l	0.0481	Not Sampled	0.0993	Not Sampled	0.0449	Not Sampled
70507A	Ortho Phosphorus - Total	mg/l	0.0050	0.0150	0.0350	0.0210	0.0220	0.0310
82295A	Chloride - Dissolved	µg/l	13,000.0000	13,000.0000	13,000.0000	13,000.0000	14,000.000	14,000.0000

Table 17B. Water Quality Results for Speedwell Forge Lake, Station B

STORET Code	Parameter	Units	4/19/95 1.0 meter	6/21/95 1.0 meter	9/7/95 1.0 meter
00010	Temperature	°C	12.90	25.30	23.80
00400	pH	su	8.25	7.98	8.55
00300	Dissolved Oxygen	mg/l	12.65	11.31	11.55
00094	Specific Conductance	umhos/cm	326.00	309.00	333.00
	Secchi Depth	meters	1.00	1.95	0.48
00080	Color	pt/c	20.0000	15.0000	12.5000
00410	Alkalinity	mg/l	108.0000	96.0000	110.0000
00515	Solids - Dissolved	mg/l	274.0000	248.0000	435.0000
00600A	Nitrogen - Total	mg/l	6.6900	4.9300	4.8100
00610A	Ammonia - Total	mg/l	0.0300	0.0300	0.2150
00615A	Nitrite - Total	mg/l	0.0300	0.0680	0.0680
00620A	Nitrate - Total	mg/l	4.8500	3.2300	3.8700
00665A	Phosphorus - Total	mg/l	0.0700	0.1700	0.1400
00671A	Ortho Phosphorus - Dissolved	mg/l	<0.0020	<0.0020	0.0390
00680	Organic Carbon - Total	mg/l	2.8000	5.2000	4.8000
00900A	Hardness - Total	mg/l	151.0000	109.0000	139.0000
00915A	Calcium - Dissolved	mg/l	39.7000	34.1000	3.3100
00925A	Magnesium - Dissolved	mg/l	12.6000	13.5000	13.4500
00930A	Sodium - Dissolved	mg/l	6.3300	7.3600	6.6500
00935A	Potassium - Dissolved	mg/l	3.1700	2.7000	2.9350
00946	Sulfate - Dissolved	mg/l	20.8000	18.6000	21.6500
00950	Fluoride - Dissolved	mg/l	<0.2000	<0.2000	<0.2000
00955A	Silicon	mg/l	7.0406	9.3946	7.9715
01046A	Iron - Dissolved	µg/l	32.0000	<10.0000	69.0000
01056A	Manganese - Dissolved	µg/l	15.0000	<10.0000	30.5000
32230	Chlorophyll *a*	mg/l	Not Sampled	Not Sampled	Not Sampled
70507A	Ortho Phosphorus - Total	mg/l	0.0090	0.0300	0.0510
82295A	Chloride - Dissolved	µg/l	13,000.0000	13,000.0000	15,000.0000

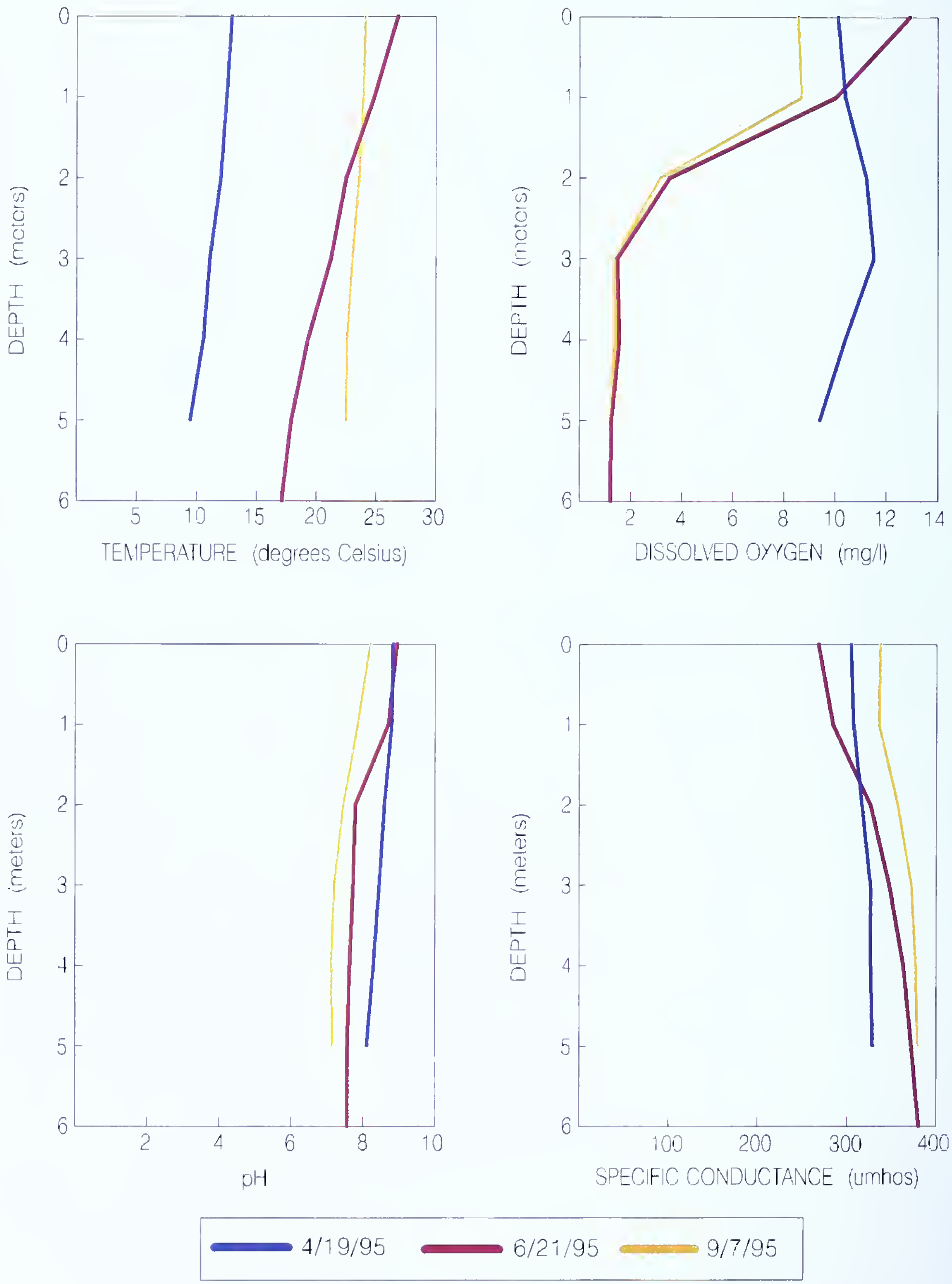

Figure 16. Temperature, Dissolved Oxygen, pH, and Specific Conductance Profiles for Speedwell Forge Lake

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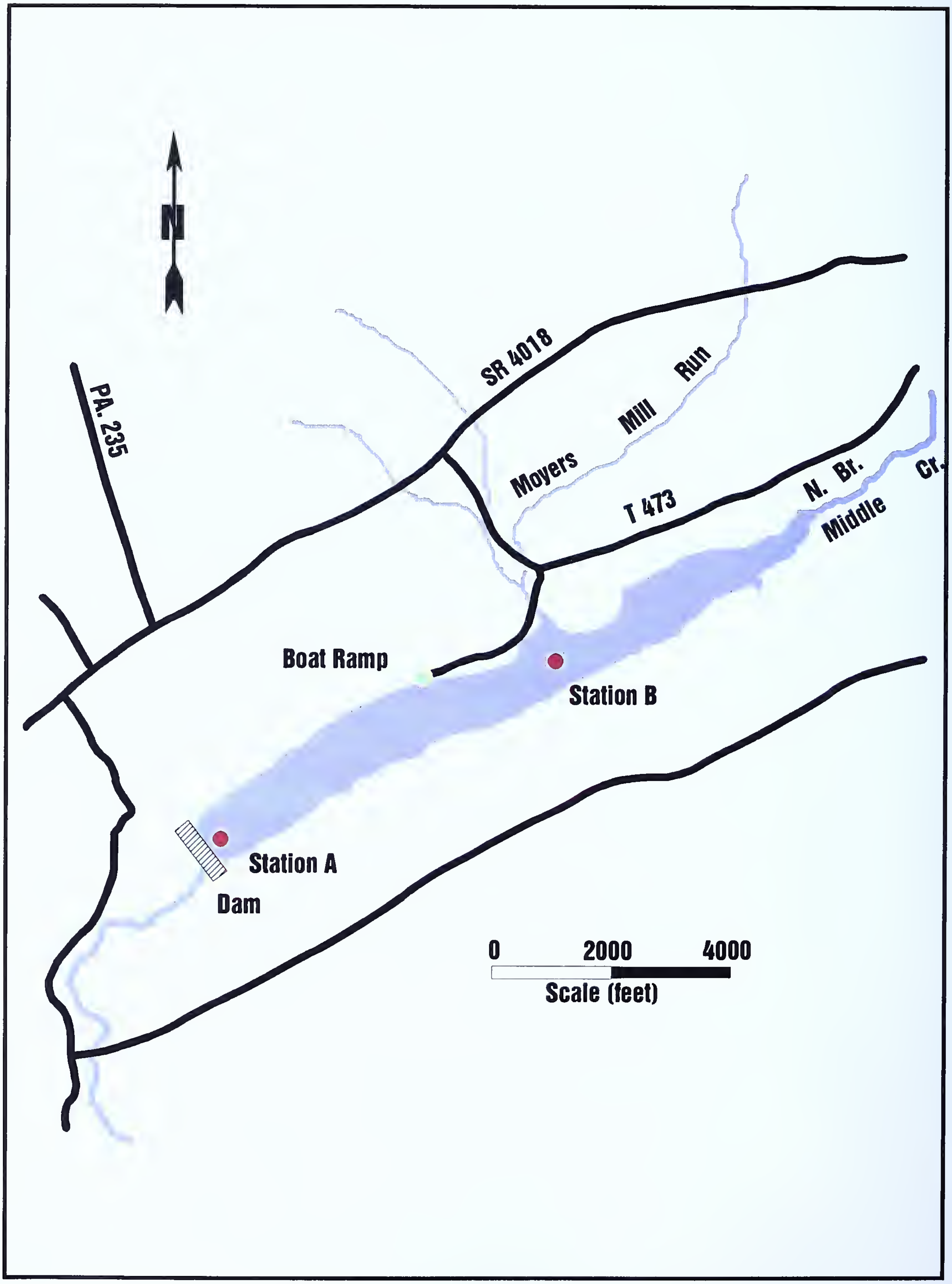

Figure 17. Map of C.F. Walker Lake

C.F. WALKER LAKE

Location:

At Troxelville, Adams Township, Snyder County (Figure 17); latitude 40°47'48", longitude 77°11'48"; North Branch Middle Creek, Susquehanna River Basin; 630 feet altitude; Beavertown quadrangle (1:24,000).

Origin:

Artificial, built in 1970.

Ownership:

Commonwealth of Pennsylvania, Pennsylvania Fish and Boat Commission.

Physical Characteristics of Lake:

Surface area:	239	acres (967,233 m^2)
Volume:	3,317	acre-feet (4,091,460 m^3)*
Mean depth:	13.8	feet (4.2 m)*
Maximum depth:	32.0	feet (9.8 m)*
Length of shoreline:	4.5	miles (7.2 km)

Drainage Basin Characteristics:

Size: 17.6 mi^2 (45.6 km^2)
Geology: Upper Devonian marine beds
Soils: Shaley silt loam
Land use:

1981*		1992 (EMAP)	
Urban	0%	Developed–high intensity	0%
Suburban	1%	Developed–low intensity	<0.1%
Agricultural	47%	Herbaceous	57.6%
Forest or undeveloped	50%	Woody	40.1%
Lake surface	2%	Exposed	0%
		Water	2.3%

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* Source: Ulanoski, J.T., R.H. Shertzer, J.L. Barker, and R.T. Hartman. 1981. Trophic Classification and Characteristics of Twenty-Six Publicly Owned Pennsylvania Lakes. Bureau of Water Quality Management, Pa. Department of Environmental Resources, Publication No. 61, 240 pp.

Near-shore Development:

Number of near-shore homes: 1 dairy farm.

Recreational Facilities:

Boat launch and mooring site (qualified nonpowered or electric motors only).

Hydrology:

The lake is fed by North Branch Middle Creek and Moyers Mill Run. The outflow is to North Branch Middle Creek. Mean hydraulic retention time* is calculated to be 73 days.

Point Source Waste Discharges in Watershed:

None.

Nonpoint Pollution Sources:

Agricultural land uses in the watershed generate nutrient and sediment runoff.

Potential Local Interest Resources:

Snyder County Planning Commission
P. O. Box 217, Courthouse
Middleburg, PA 17842-0217
(717) 837-4257

Snyder County Conservation District
403 West Market Street
Middleburg, PA 17842
(717) 837-0085

Wyoming County Planning Commission
Courthouse
Tunkhannock, PA 18657
(717) 836-3200

PA Federation of Sportsmen's Clubs
Robert W. Correy
907 Buffalo Road
Lewisburg, PA 17837-1205

Department of Geology and Environmental Sciences
Susquehanna University
Selinsgrove, PA 17870
(717) 374-0101

Water Quality:

C.F. Walker Lake is a moderately deep lake that did not completely stratify thermally or chemically (Figure 18). Dissolved oxygen concentrations are depleted below a depth of 5 meters. The lake has a history of siltation and high turbidity. The excess sediment loads originate from the two streams that flow into the lake, Moyers Mill Run and the North Branch of Middle Creek.

The water quality in C.F. Walker Lake appears to be good (Tables 18A and 18B). Total nitrogen and phosphorus concentrations are slightly elevated in the lake. The nutrient concentrations may result in some aquatic plant growth. The ratio of total nitrogen to total phosphorus is 18.7 to 1 in C.F. Walker Lake. This indicates that total phosphorus concentrations limit the growth of algae and other aquatic plants in the lake.

The high fertility of the lake is apparent from the TSI values. The TSI scores ranged from 48 to 58 based on chlorophyll *a* values, and from 57 to 63 based on total phosphorus concentrations. The TSI scores indicate that C.F. Walker Lake is eutrophic to hypereutrophic.

Table 18A. Water Quality Results for C.F. Walker Lake, Station A

STORET Code	Parameter	Units	4/20/95		6/22/95		9/6/95	
			1.0 meter	8.0 meters	1.0 meter	8.0 meters	1.0 meter	6.0 meters
00010	Temperature	°C	11.10	9.10	25.70	15.60	23.50	21.70
00400	pH	su	7.71	7.71	9.48	6.63	7.52	6.69
00300	Dissolved Oxygen	mg/l	10.49	8.05	9.72	1.73	6.98	2.00
00094	Specific Conductance	umhos/cm	105.00	101.00	119.00	137.00	136.00	154.00
	Secchi Depth	meters	1.00		1.42		0.76	
00080	Color	pt/c	20.0000	20.0000	< 5.0000	40.0000	20.0000	40.0000
00410	Alkalinity	mg/l	30.0000	30.0000	36.0000	48.0000	48.0000	60.0000
00515	Solids - Dissolved	mg/l	62.0000	86.0000	91.0000	112.0000	238.0000	138.0000
00600A	Nitrogen - Total	mg/l	1.1100	1.0900	0.8950	1.0300	1.0700	1.9900
00610A	Ammonia - Total	mg/l	< 0.0200	0.0400	< 0.0200	0.5900	0.1200	1.2800
00615A	Nitrite - Total	mg/l	0.0100	0.0100	0.0170	0.0180	0.0060	0.0060
00620A	Nitrate - Total	mg/l	0.7600	0.7800	0.2300	0.0700	< 0.0400	< 0.0400
00665A	Phosphorus - Total	mg/l	0.0600	0.0400	0.0450	0.0700	0.0600	0.0900
00671A	Ortho Phosphorus - Dissolved	mg/l	0.0040	< 0.0020	< 0.0020	0.0140	< 0.0020	0.0200
00680	Organic Carbon - Total	mg/l	3.1000	2.8000	5.6500	4.6000	6.8000	5.9000
00900A	Hardness - Total	mg/l	31.0000	33.0000	36.5000	49.0000	54.0000	57.0000
00915A	Calcium - Dissolved	mg/l	12.4000	12.0000	14.4000	15.8000	16.6500	17.6000
00925A	Magnesium - Dissolved	mg/l	3.1400	2.8800	3.1650	3.3400	3.7600	3.9400
00930A	Sodium - Dissolved	mg/l	2.5700	2.0100	2.0500	1.8800	2.4450	2.1700
00935A	Potassium - Dissolved	mg/l	1.5700	1.6200	1.6250	1.6200	1.6500	1.5900
00946	Sulfate - Dissolved	mg/l	11.4000	11.5000	10.7500	8.9000	9.5000	2.1000
00950	Fluoride - Dissolved	mg/l	< 0.2000	< 0.2000	< 0.2000	< 0.2000	< 0.2000	< 0.2000
00955A	Silicon	mg/l	2.1400	2.5038	2.1111	2.6108	4.6331	5.1788
01046A	Iron - Dissolved	µg/l	< 10.0000	< 10.0000	58.0000	1,230.0000	92.0000	1,420.0000
01056A	Manganese - Dissolved	µg/l	58.0000	< 10.0000	< 10.0000	818.0000	89.0000	1,370.0000
32230	Chlorophyll *a*	mg/l	0.0117	Not Sampled	0.0074	Not Sampled	0.0269	Not Sampled
70507A	Ortho Phosphorus - Total	mg/l	0.0230	0.0070	< 0.0020	0.0220	0.0050	0.0240
82295A	Chloride - Dissolved	µg/l	3,000.0000	4,000.0000	3,000.0000	3,000.0000	5,000.0000	4,000.0000

Table 18B. Water Quality Results for C.F. Walker Lake, Station B

STORET Code	Parameter	Units	4/20/95 1.0 meter	6/22/95 1.0 meter	9/6/95 1.0 meter
00010	Temperature	°C	12.40	24.60	23.70
00400	pH	su	7.89	9.15	7.45
00300	Dissolved Oxygen	mg/l	10.88	9.19	5.33
00094	Specific Conductance	umhos/cm	109.00	121.00	137.00
	Secchi Depth	meters	1.00	1.14	0.56
00080	Color	pt/c	20.0000	<5.0000	20.0000
00410	Alkalinity	mg/l	32.0000	38.0000	48.0000
00515	Solids - Dissolved	mg/l	82.0000	94.0000	130.0000
00600A	Nitrogen - Total	mg/l	1.0900	0.9100	1.0300
00610A	Ammonia - Total	mg/l	0.0300	0.0200	0.1800
00615A	Nitrite - Total	mg/l	0.0120	0.0160	0.0060
00620A	Nitrate - Total	mg/l	0.7600	0.2700	<0.0400
00665A	Phosphorus - Total	mg/l	0.0500	0.1500	0.0600
00671A	Ortho Phosphorus - Dissolved	mg/l	<0.0020	0.0610	<0.0020
00680	Organic Carbon - Total	mg/l	3.6000	5.3000	6.4000
00900A	Hardness - Total	mg/l	47.0000	36.0000	55.0000
00915A	Calcium - Dissolved	mg/l	14.5000	14.8000	17.2000
00925A	Magnesium - Dissolved	mg/l	4.4000	3.4100	3.9000
00930A	Sodium - Dissolved	mg/l	4.5400	2.3900	2.2100
00935A	Potassium - Dissolved	mg/l	2.0100	2.3000	1.6800
00946	Sulfate - Dissolved	mg/l	11.4000	10.8000	9.4000
00950	Fluoride - Dissolved	mg/l	<0.2000	<0.2000	<0.2000
00955A	Silicon	mg/l	2.6108	2.6964	4.7722
01046A	Iron - Dissolved	µg/l	53.0000	94.0000	126.0000
01056A	Manganese - Dissolved	µg/l	241.0000	12.0000	117.0000
32230	Chlorophyll *a*	mg/l	Not Sampled	Not Sampled	Not Sampled
70507A	Ortho Phosphorus - Total	mg/l	0.0230	0.0900	0.0090
82295A	Chloride - Dissolved	µg/l	3,000.0000	3,000.0000	4,000.0000

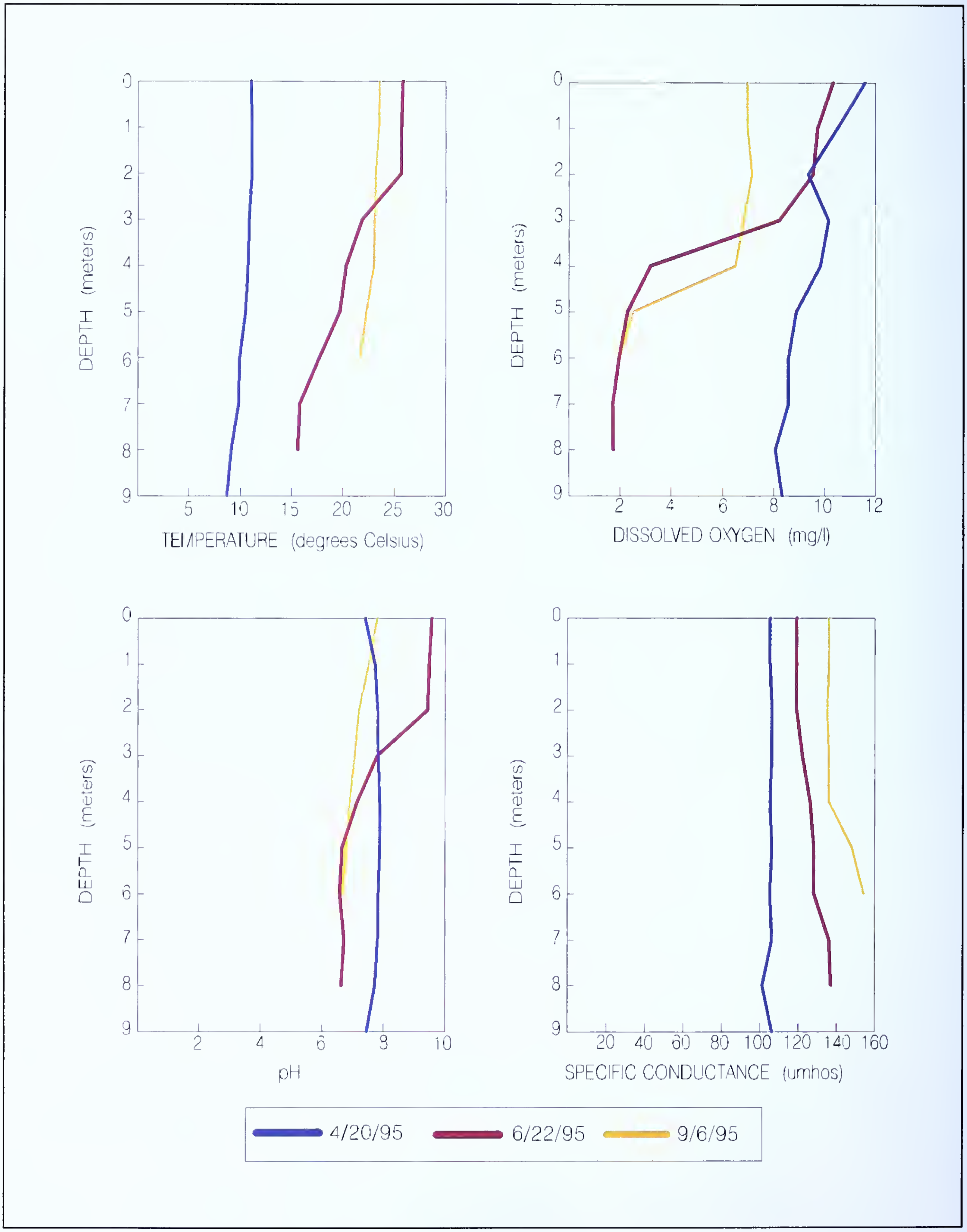

Figure 18. Temperature, Dissolved Oxygen, pH and Specific Conductance Profiles for C.F. Walker Lake

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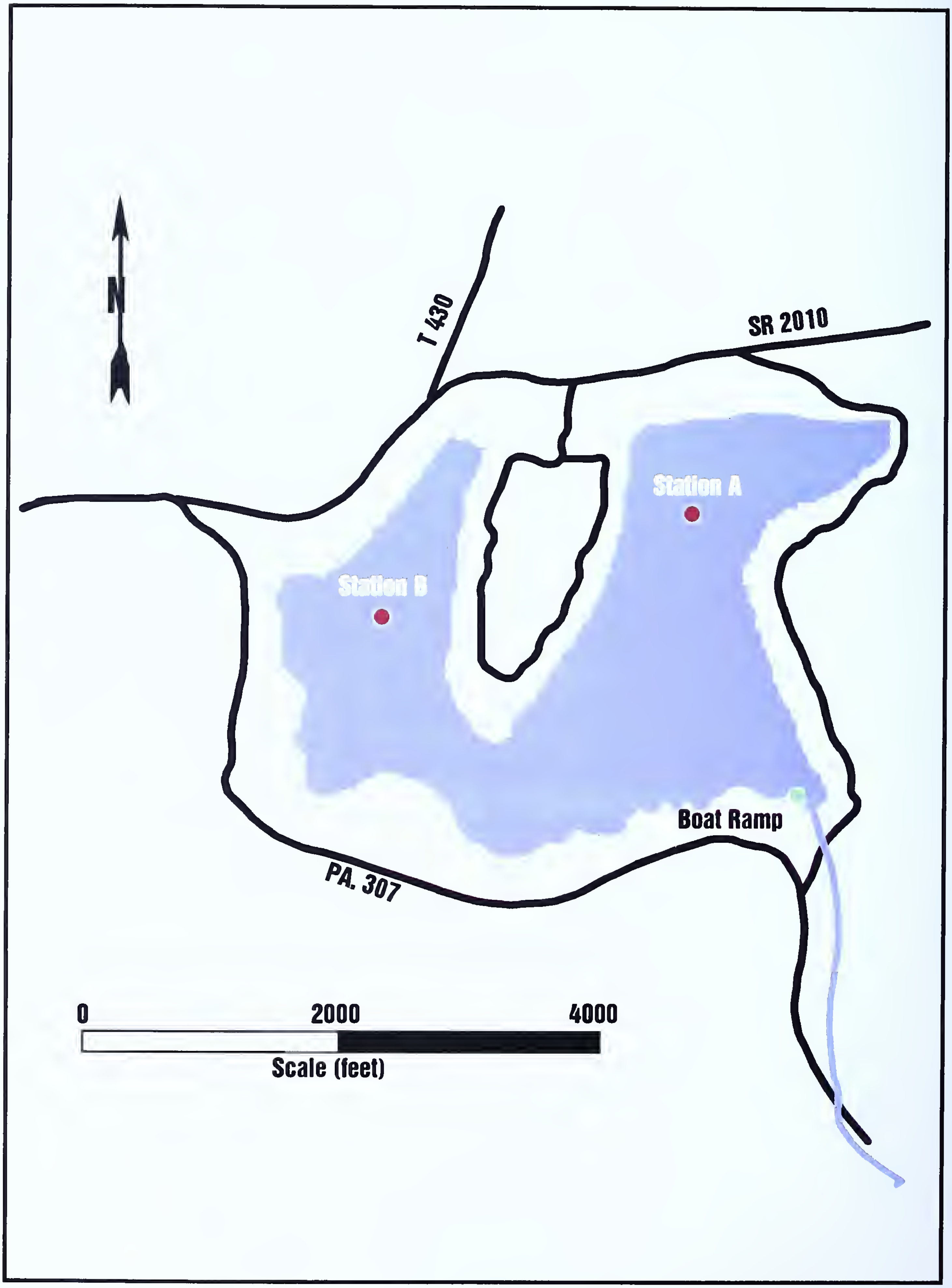

Figure 19. Map of Winola Lake

LAKE WINOLA

Location:

Approximately 7 miles east of Tunkhannock, Overfield Township, Wyoming County (Figure 19); latitude 41°30'35", longitude 75°50'33"; North Branch Susquehanna River Basin; 997 feet altitude; Factoryville quadrangle (1:24,000).

Origin:

Natural lake

Ownership:

Lake Winola Association, Pennsylvania Fish and Boat Commission owns access area near the lake outlet.

Physical Characteristics of Lake:

Surface area:	190	acres (768,930 m^2)
Volume:	5,713	acre-feet (7,046,882 m^3)*
Mean depth:	30	feet (9.1 m)*
Maximum depth:	65	feet (19.8 m)*
Length of shoreline:	3.5	miles (5.6 km)

Drainage Basin Characteristics:

Size:	2.4 mi^2 (6.2km^2)
Geology:	Upper Devonian shales and sandstone
Soils:	Silt loam formed on Wisconsin age till

Land use:

1981*		1992 (EMAP)	
Urban	0%	Developed–high intensity	0%
Suburban	26%	Developed–low intensity	10.1%
Agricultural	17%	Herbaceous	40.6%
Forest or undeveloped	23%	Woody	30.4%
Lake surface	34%	Exposed	0%
		Water	18.9%

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* Source: Ulanoski, J.T., R.H. Shertzer, J.L. Barker, and R.T. Hartman. 1981. Trophic Classification and Characteristics of Twenty-Six Publicly Owned Pennsylvania Lakes. Bureau of Water Quality Management, Pa. Department of Environmental Resources, Publication No. 61, 240 pp.

Near-shore Development:

Number of near-shore homes: Approximately 350

Recreational Facilities:

Boat launch, swimming beach. Boats with unlimited horsepower allowed.

Hydrology:

The lake is fed entirely by groundwater sources. No estimate of flow or retention is available.

Point Source Waste Discharges in Watershed:

None.

Nonpoint Pollution Sources:

Septic system infiltration, agricultural runoff.

Potential Local Interest Resources:

Lake Winola Municipal Authority
Box 59
Lake Winola, PA 18625
(717) 378-2741

Lake Winola Cottagers Association
Box 56
Lake Winola, PA 18625
(717) 378-2249

Wyoming County Conservation District
R.R. # 3, Box 178B
Tunkhannock, PA 18657
(717) 836-2589 or (717) 836-2993

Wyoming County Planning Commission
Courthouse
Tunkhannock, PA 18657
(717) 836-3200

PA Federation of Sportsmen's Clubs
Robert E. Dickinson
R.D. 2, Box 249
Dalton, PA 18414-9802

PA Federation of Sportsmen's Clubs
Michael Pekar
1332 Penn Avenue
Scranton, PA 18509-2831

Water Quality:

Lake Winola is a deep natural lake that exhibits well-developed thermal stratification (Figures 20 and 21). The shoreline is highly developed with homes and cottages. Previous surveys indicate that water quality was good, but some eutrophication was occurring due to nutrient build-up from septic system drainage and other nonpoint sources. The water quality data collected during this survey confirms that eutrophication is occurring in Lake Winola.

The water quality in lake Winola varied significantly between sampling events (Tables 19A and 19B). Total nitrogen concentrations ranged from 0.41 mg/l at the surface to 4.46 mg/l at the bottom of the lake. Total phosphorus followed the same trend. Phosphorus values ranged from 0.03 mg/l at the surface to 1.68 mg/l at the bottom.

Nitrogen and phosphorus concentrations changed each time the lake was sampled. Near the surface of the lake, nutrient concentrations increased between spring and summer, but decreased between summer and fall. The nutrient concentrations also increased towards the bottom of the lake. At the bottom, the nutrient concentrations increased during the summer, and were the highest observed in the lake.

The changes in water quality are due to extensive algal blooms observed in Lake Winola on June 6, 1995. The algae near the surface of the lake assimilate nitrogen and phosphorus for growth. As the algal bloom spreads, nitrogen and phosphorus concentrations become depleted near the surface of the lake. The depleted nutrient concentrations result in reduced algal growth and some die-off. The dead algae settle to the bottom and begin to decompose. This results in the stored nitrogen and phosphorus being released back in the water column at the bottom of the lake.

The elevated nutrient concentrations in Lake Winola result in high TSI values. The TSI values ranged from 65 to 70 based on total phosphorus concentrations and from 47 to 73 based on chlorophyll *a* samples. The TSI values suggest that Lake Winola is in a eutrophic to hypereutrophic state.

Table 19A. Water Quality Results for Lake Winola, Station A

STORET Code	Parameter	Units	4/27/95		6/7/95		8/31/95	
			1.0 meter	15.0 meters	1.0 meter	15.0 meters	1.0 meter	15.0 meters
00010	Temperature	°C	10.80	7.30	22.40	7.20	23.50	6.70
00400	pH	su	7.88	7.13	9.48	6.95	7.98	6.85
00300	Dissolved Oxygen	mg/l	11.89	9.14	9.23	1.78	5.79	1.19
00094	Specific Conductance	umhos/cm	166.00	167.00	166.00	177.00	168.00	236.00
	Secchi Depth	meters	4.50		0.76		5.49	
00080	Color	pt/c	< 5.0000	< 5.0000	20.0000	15.0000	10.0000	20.0000
00410	Alkalinity	mg/l	42.0000	42.0000	42.0000	50.0000	40.0000	86.0000
00515	Solids - Dissolved	mg/l	104.0000	108.0000	120.0000	132.0000	82.0000	126.0000
00600A	Nitrogen - Total	mg/l	0.5900	0.7900	0.9100	1.3800	0.4100	4.4600
00610A	Ammonia - Total	mg/l	0.0200	0.2400	0.0900	0.8600	< 0.0200	3.6500
00615A	Nitrite - Total	mg/l	0.0080	0.0060	0.0040	0.0050	< 0.0040	< 0.0040
00620A	Nitrate - Total	mg/l	0.1400	0.1700	< 0.0400	0.0700	< 0.0400	< 0.0400
00665A	Phosphorus - Total	mg/l	0.1000	0.1600	0.0700	0.4400	0.0300	1.6800
00671A	Ortho Phosphorus - Dissolved	mg/l	0.0400	0.0740	< 0.0020	0.2535	< 0.0020	1.2800
00680	Organic Carbon - Total	mg/l	3.8000	3.8000	6.1000	4.8000	4.2000	5.2000
00900A	Hardness - Total	mg/l	46.0000	45.0000	45.0000	47.5000	46.0000	69.0000
00915A	Calcium - Dissolved	mg/l	17.4000	17.6000	17.2000	18.7000	15.0000	19.3000
00925A	Magnesium - Dissolved	mg/l	1.9700	1.9800	1.9200	1.9950	1.7500	1.8900
00930A	Sodium - Dissolved	mg/l	7.8100	8.0200	8.3000	8.2800	7.9500	7.8100
00935A	Potassium - Dissolved	mg/l	1.7500	1.9600	1.8500	1.9000	1.6400	2.4300
00946	Sulfate - Dissolved	mg/l	11.6000	11.7000	11.6000	10.8500	11.8000	< 1.0000
00950	Fluoride - Dissolved	mg/l	< 0.2000	< 0.2000	< 0.2000	< 0.2000	< 0.2000	< 0.2000
00955A	Silicon	mg/l	< 1.0700	< 1.0700	< 1.0700	1.2508	< 1.0700	3.7878
01046A	Iron - Dissolved	µg/l	25.0000	39.0000	16.0000	51.5000	64.0000	533.0000
01056A	Manganese - Dissolved	µg/l	294.0000	442.0000	126.0000	1,255.0000	254.0000	6030.0000
32230	Chlorophyll *a*	mg/l	0.0052	Not Sampled	0.0347	Not Sampled	0.0000	Not Sampled
70507A	Ortho Phosphorus - Total	mg/l	0.0740	0.1160	0.0190	0.3560	< 0.0020	1.3300
82295A	Chloride - Dissolved	µg/l	13,000.0000	13,000.0000	14,000.0000	15,000.0000	15,000.0000	14,000.0000

Table 19B. Water Quality Results for Lake Winola, Station B

STORET Code	Parameter	Units	4/26/95		6/7/95		8/31/95	
			1.0 meter	20 meters	1.0 meter	20 meters	1.0 meter	20 meters
00010	Temperature	°C	10.30	6.40	23.50	6.90	23.50	6.60
00400	pH	su	7.95	7.15	9.50	6.90	7.95	6.98
00300	Dissolved Oxygen	mg/l	11.67	9.85	9.55	1.24	5.91	1.24
00094	Specific Conductance	umhos/cm	166.00	166.00	167.00	179.00	167.00	216.00
	Secchi Depth	meters	4.50		1.00		4.88	
00080	Color	pt/c	25.0000	25.0000	22.5000	15.0000	10.0000	10.0000
00410	Alkalinity	mg/l	42.0000	42.0000	41.0000	48.0000	39.0000	74.0000
00515	Solids - Dissolved	mg/l	96.0000	98.0000	136.0000	130.0000	93.0000	112.0000
00600A	Nitrogen - Total	mg/l	0.5300	0.7600	1.3800	1.3200	0.4850	3.2300
00610A	Ammonia - Total	mg/l	<0.0200	0.2200	0.2100	0.8300	<0.0200	2.4400
00615A	Nitrite - Total	mg/l	0.0080	0.0080	0.0060	0.0180	<0.0040	<0.0040
00620A	Nitrate - Total	mg/l	0.0800	0.1400	0.0500	0.0500	<0.0400	<0.0400
00665A	Phosphorus - Total	mg/l	0.0900	0.1300	0.0900	0.3800	0.0300	1.1700
00671A	Ortho Phosphorus - Dissolved	mg/l	0.0130	0.0500	<0.0020	0.2710	<0.0020	0.9200
00680	Organic Carbon - Total	mg/l	3.6000	3.5000	7.3500	4.9000	4.2000	4.6000
00900A	Hardness - Total	mg/l	46.0000	48.0000	42.0000	49.0000	50.0000	67.0000
00915A	Calcium - Dissolved	mg/l	16.5000	17.1000	17.3000	18.5000	15.1000	18.0000
00925A	Magnesium - Dissolved	mg/l	1.9500	1.9700	1.9550	2.0100	1.7700	1.8400
00930A	Sodium - Dissolved	mg/l	8.1000	8.3000	8.3600	8.2300	8.4050	8.4100
00935A	Potassium - Dissolved	mg/l	1.9400	2.1000	1.9300	1.8500	1.8400	2.1000
00946	Sulfate - Dissolved	mg/l	11.4000	11.5000	11.6000	10.7000	12.0000	1.3000
00950	Fluoride - Dissolved	mg/l	<0.2000	<0.2000	<0.2000	<0.2000	<0.2000	<0.2000
00955A	Silicon	mg/l	<1.0700	<1.0700	<1.0700	1.2305	<1.0700	2.9532
01046A	Iron - Dissolved	µg/l	15.0000	15.0000	13.0000	67.0000	49.5000	370.0000
01056A	Manganese - Dissolved	µg/l	249.0000	378.0000	13.0000	1,430.0000	<10.0000	5,160.0000
32230	Chlorophyll *a*	mg/l	0.0051	Not Sampled	0.0748	Not Sampled	0.0000	Not Sampled
70507A	Ortho Phosphorus - Total	mg/l	0.0570	0.1000	0.0450	0.2980	<0.0020	0.9300
82295A	Chloride - Dissolved	µg/l	14,000.0000	13,000.0000	15,000.0000	14,000.0000	15,000.0000	14,000.0000

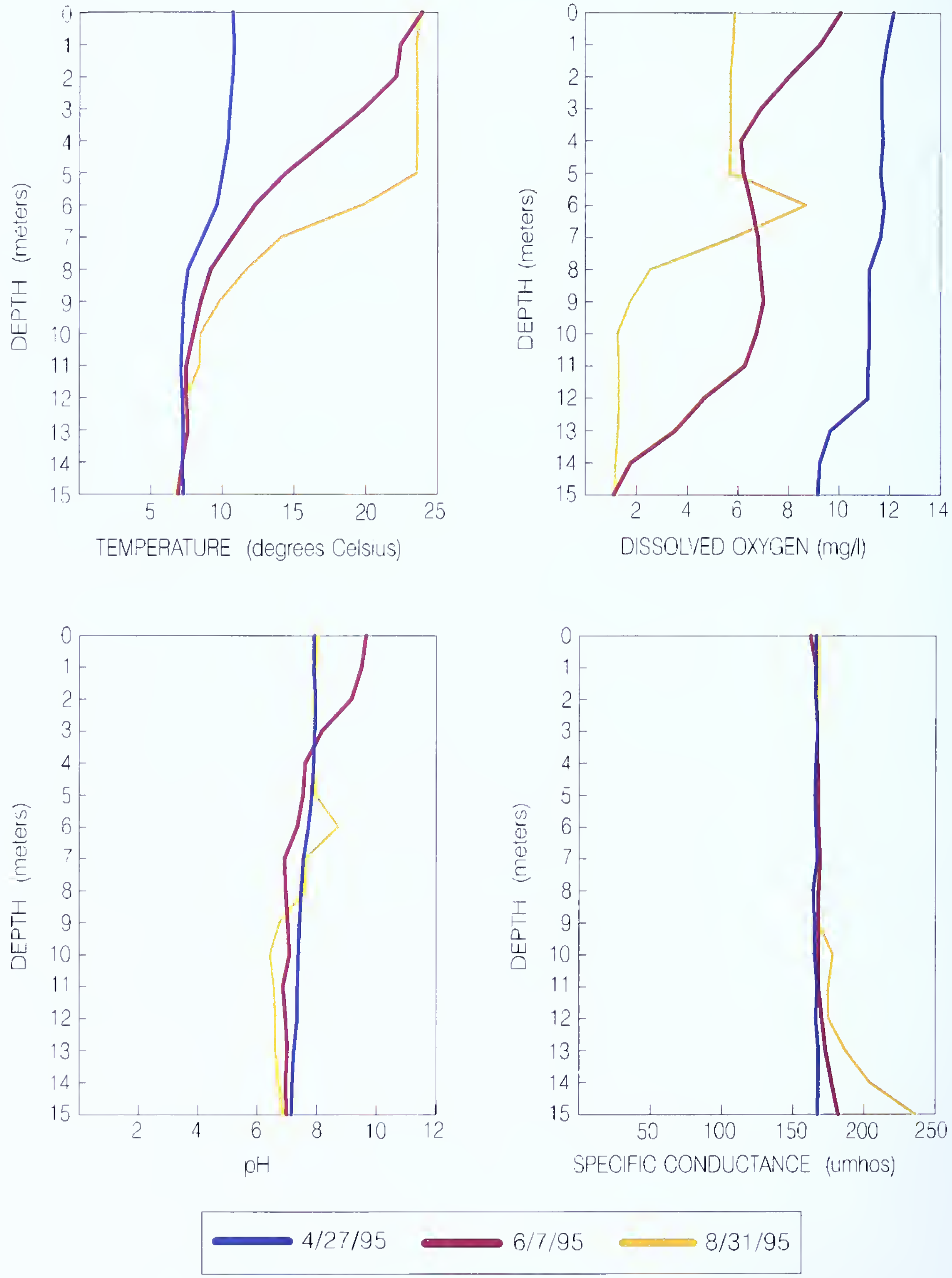

Figure 20. ***Temperature, Dissolved Oxygen, pH, and Specific Conductance Profiles Lake Winola, Station A***

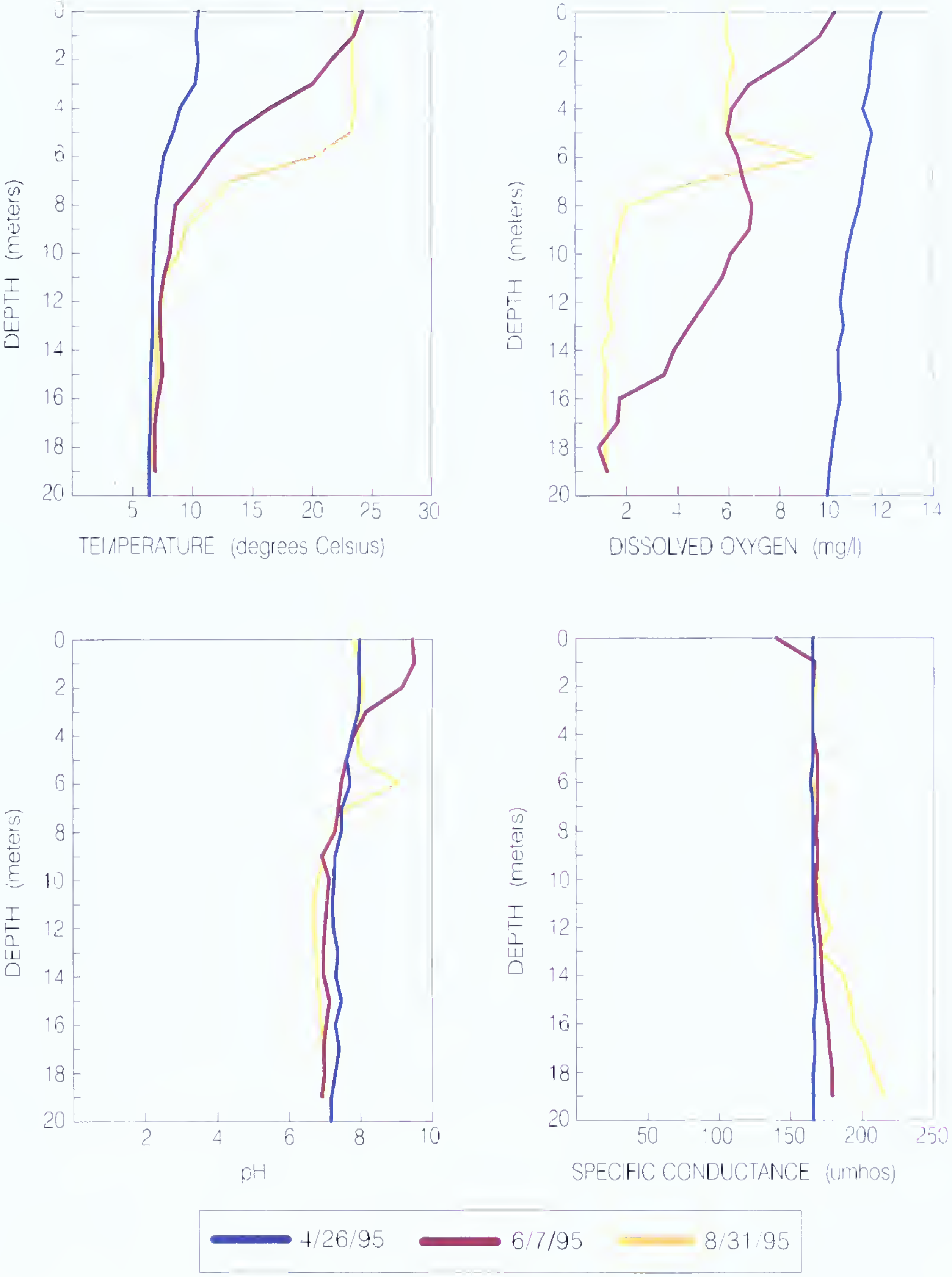

Figure 21. Temperature, Dissolved Oxygen, pH, and Specific Conductance Profiles Lake Winola, Station B

TROPHIC STATE ANALYSIS

The mean TSI values for the eleven lakes are ranked in increasing order of eutrophication in Table 20. Also included in this table are mean TSI values for total phosphorus concentrations collected during the 1981 survey.

The mean TSI values increased at all of the lakes since the earlier survey. This suggests that nutrient and sediment concentrations have increased in all of the lakes. The most significant increases in TSI values occurred at Lake Carey, C.F. Walker Lake, Parker Dam Lake, and Speedwell Forge Lake.

Table 20. Trophic State Index (Based on Total Phosphorus Concentrations) for Eleven Lakes

Lake Name	TSI Value		Trophic State
	1981	1995	
Harveys Lake	45.97	50.00	Mesotrophic to Eutrophic
Parker Dam	37.35	52.63	Mesotrophic to Eutrophic
Canoe Creek Lake	49.30	55.96	Eutrophic
Shawnee Lake	51.25	55.96	Eutrophic
Lackawanna Lake	55.32	59.29	Eutrophic
C. F. Walker Lake	47.35	61.24	Eutrophic to Hypereutrophic
Hills Creek Lake	59.95	62.82	Eutrophic to Hypereutrophic
Lake Winola	57.34	63.76	Eutrophic to Hypereutrophic
Lake Carey	54.58	66.03	Hypereutrophic
Speedwell Forge Lake	61.24	71.24	Hypereutrophic
Ford Lake	68.56	74.25	Hypereutrophic

CONCLUSIONS

The eleven lakes represent a cross-section of impounded aquatic environments in Pennsylvania. The lakes ranged in size from 19.5 acres to 659 acres and are located within four major physiographic provinces. Three are natural lakes, and eight are man-made impoundments. Chemical and physical differences among the lakes represent the diversity of geology, soil characteristics, drainage basin characteristics, land use and the quality of the inflow. The degree of human encroachment also impacted these lakes.

Five of the lakes were dimictic; that is, they mixed or "turned-over" during spring and autumn, were thermally stratified in the summer, and under ice cover in the winter. The deeper lakes, Lake Winola, Lake Carey, Lackawanna Lake, Shawnee Lake, and Harveys Lake, have longer residence times of water and develop a higher degree of thermal stability. The other six lakes failed to demonstrate thermal stratification. C.F. Walker Lake is the deepest of the latter six lakes (32 ft), and did stratify thermally during the previous survey (Ulanoski and others, 1981).

Supersaturation of dissolved oxygen was common in the epilimnion during the active growing season when photosynthesis exceeds respiration. Rapid depletion of dissolved oxygen within the metalimnion also was common in the more fertile waters of Lake Winola, Lake Carey, Harveys Lake, and Shawnee Lake, and is detrimental to maintenance of good quality water. Anaerobic conditions in the hypolimnion of these lakes persisted until autumn overturn, or a volume exchange by a heavy rainstorm.

Dissolved oxygen depletion indicates overproduction, and subsequent decomposition of algal cells, and is common in eutrophic lakes.

Dissolved solids concentrations ranged from about 40 to 544 mg/L and, in the absence of contaminants, reflected the basin geology. According to Barker (1978), dissolved solids in unpolluted lakes in Pennsylvania range from 17 to 130 mg/L. Polluted lakes may have a dissolved solids concentration of over 400 mg/L. Dissolved solids concentrations increased at Ford Lake, Hills Creek Lake, and Shawnee Lake since the previous study (Ulanoski and others, 1981).

Contamination from man's activities is a serious threat to several lakes. Domestic pollution was significant at Lake Carey and Lake Winola. Nutrients from nearby septic systems infiltrated these lakes and caused extensive algal blooms. Agricultural pollution was significant at Ford Lake and Speedwell Forge Lake. Agricultural runoff in the watersheds of these lakes resulted in high concentrations of nutrients and sediment which accelerate the eutrophication process.

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APPENDIX A

LISTS OF LAKES DELETED DURING SCREENING PROCESS

Table A1. Lakes With No Public Access or Detention Time Less Than 14 Days (D(t) <14)

Source	Lake or Reservoir ID Number and Name		County ID Number and Name		Latitude	Longitude	Quad	USGS Quad
DDB	11	Lake Meade	1	Adams	39-59-30	77-02-36	1929	Hampton
DDB	6	East Berlin Mun Reservoir	1	Adams	39-56-39	76-59-41	1930	Abbottstown
DDB	7	Bendersville Water Co Reservoir # 2	1	Adams	39-58-26	77-16-35	1927	Arendtsville
DDB	8	Bendersville Water Co Reservoir # 1	1	Adams	39-58-28	77-16-39	1927	Arendtsville
DDB	10	Aspers Water Company Reservoir	1	Adams	39-59-39	77-14-20	1928	Biglerville
DDB	1	Sheppard	1	Adams	39-45-48	77-01-06	2029	McSherrystown
DDB	12	York Springs Reservoir	1	Adams	40-00-37	77-07-31	1828	Mount Holly Springs
DDB	25	Camp Pleasant Assoc	5	Bedford	40-10-12	78-34-48	1717	Alum bank
DDB	16	Bedford Boro Water Auth Milburn Res	5	Bedford	40-00-24	78-32-00	1817	Bedford
DDB	17	Millburn Spring Reservoir	5	Bedford	40-00-24	78-31-54	1817	Bedford
DDB	18	Bedford Boro Water Auth Todd Res	5	Bedford	40-01-18	78-31-03	1817	Bedford
DDB	19	Todd Spring Reservoir	5	Bedford	40-01-24	78-31-42	1817	Bedford
DDB	22	John C. Smith	5	Bedford	40-02-00	78-31-54	1817	Bedford
DDB	23	Bedford Boro Water Auth Smith Res	5	Bedford	40-02-04	78-31-48	1817	Bedford
DDB	26	Waterside-Loysburg Water Assn Res	5	Bedford	40-11-31	78-21-37	1719	Hopewell
DDB	30	Pence Dam	5	Bedford	40-13-30	78-22-12	1719	Hopewell
DDB	24	Salemville Water Assn, Inc-Reservoir	5	Bedford	40-08-37	78-26-30	1718	New Enterprise
DDB	27	Keagy Dam -Breached	5	Bedford	40-12-36	78-22-36	1718	New Enterprise
DDB	14	Lake Caledonia Dam	5	Bedford	39-59-00	78-31-06	1917	Rainsburg
DDB	15	Lower Red Oaks Dam	5	Bedford	39-59-04	78-31-08	1917	Rainsburg
DDB	29	Saxton Mun Waterworks-Putts H Resvr	5	Bedford	40-12-58	78-13-24	1720	Saxton
DDB	31	Millwater Dam	6	Berks	40-09-54	75-52-42	1738	Morgantown
CCD		Sproul Lime-Sand Banks Ponds-Public Fishing	7	Blair	42-26-20	78-20-39	1519	Frankstown
DDB	57	Storage Dam	7	Blair	40-30-24	78-26-12	1418	Altoona
DDB	58	Altoona City Water Dept Little Alle	7	Blair	40-30-32	78-26-18	1418	Altoona
DDB	59	Altoona City Water Dept Mill Run Da	7	Blair	40-31-10	78-27-05	1418	Altoona
DDB	60	Mill Run Dam	7	Blair	40-31-12	78-27-00	1418	Altoona
DDB	63	Altoona City Water Dept Superhigh	7	Blair	40-31-38	78-24-56	1418	Altoona
DDB	65	Altoona Lower No.2 Dam	7	Blair	40-34-18	78-24-48	1418	Altoona
DDB	66	Altoona City Water Dept Homers Gap	7	Blair	40-34-19	78-25-20	1418	Altoona
DDB	67	Altoona City Water Dept Bellwood	7	Blair	40-36-59	78-23-02	1418	Altoona
DDB	68	Bellwood Dam	7	Blair	40-37-30	78-22-48	1418	Altoona
DDB	56	Brush Mountain Dam -Members Only	7	Blair	40-30-24	78-20-54	1419	Bellwood
DDB	62	Pottsgrove -Breached	7	Blair	40-31-36	78-21-18	1419	Bellwood
DDB	64	Bellemead Civic W Assn Instr Res	7	Blair	40-33-23	78-20-21	1419	Bellwood
DDB	37	Plane Nine Dam	7	Blair	40-25-48	78-30-18	1517	Cresson
DDB	38	Hollidaysburg Wtr Auth - Muleshoe R	7	Blair	40-25-52	78-31-20	1517	Cresson
DDB	39	Muleshoe Dam	7	Blair	40-26-06	78-31-06	1517	Cresson
DDB	42	Altoona City Water Dept Pl #9 & Blair	7	Blair	40-26-52	78-31-42	1517	Cresson
DDB	43	Blair Gap Dam	7	Blair	40-26-54	78-31-30	1517	Cresson
DDB	44	Hollidaysburg Wtr Auth - Brush Mt R	7	Blair	40-27-56	78-21-51	1519	Frankstown
DDB	36	Hollidaysburg Wtr Auth - Kladdr Res	7	Blair	40-23-23	78-23-19	1518	Holidaysburg
DDB	40	Duncansville M A Maple Hollow Res	7	Blair	40-26-24	78-29-16	1518	Holidaysburg
DDB	41	Duncansville Reservoir	7	Blair	40-26-24	78-29-12	1518	Holidaysburg
DDB	45	Lakemont Park Dam Amusemt Pk 814-949-7279	7	Blair	40-28-00	78-23-42	1518	Holidaysburg
DDB	50	Lake Altoona Dam	7	Blair	40-29-30	78-27-30	1518	Holidaysburg
DDB	51	Altoona City Water Dept Lake Altoona	7	Blair	40-29-35	78-27-26	1518	Holidaysburg
DDB	52	Lower Impounding Dam	7	Blair	40-29-42	78-28-12	1518	Holidaysburg
DDB	53	Upper Kittanning	7	Blair	40-29-42	78-28-42	1518	Holidaysburg
DDB	54	Altoona City Water Dept Kitt Pt Res	7	Blair	40-29-47	78-28-47	1518	Holidaysburg
DDB	55	Altoona City Water Dept Impounding	7	Blair	40-29-48	78-28-33	1518	Holidaysburg
DDB	33	Martinsburg Boro Mun Auth Reservoir	7	Blair	40-20-07	78-21-06	1619	Martinsburg
DDB	34	East Sharpsburg Water Assn Reservoir	7	Blair	40-20-18	78-22-05	1619	Martinsburg
DDB	32	Steam Pump Dam	7	Blair	40-17-48	78-25-12	1618	Roaring Spring
DDB	35	Biddle Hollow Res. -Breached	7	Blair	40-20-36	78-22-36	1618	Roaring Spring
DDB	69	Tipton Dam	7	Blair	40-40-30	78-19-30	1319	Tipton
DDB	70	Altoona City Water Dept Tipton	7	Blair	40-40-32	78-19-36	1319	Tipton

Public Access	Source	Sig	Digitized?	Visited	Comments	Lake or Reservoir Name
Yes	DHL	Yes	Yes	Yes	No public access	Lake Meade
No	CCD				No public access	East Berlin Mun Reservoir
No	CCD				No public access	Bendersville Water Co Reservoir # 2
No	CCD				No public access	Bendersville Water Co Reservoir # 1
No	CCD				No public access	Aspers Water Company Reservoir
No	CCD				No public access	Sheppard
No	JDG				No public access	York Springs Reservoir
Yes	CCD	No			D(t)<14 days	Camp Pleasant Assoc
No	CCD	Yes			No public access	Bedford Boro Water Auth Milburn Res
No	CCD		Yes		No public access	Millburn Spring Reservoir
No	CCD	Yes			No public access	Bedford Boro Water Auth Todd Res
No	CCD	Yes	Yes		No public access	Todd Spring Reservoir
No	CCD				No public access	John C. Smith
No	CCD	Yes	Yes		No public access	Bedford Boro Water Auth Smith Res
No	CCD				No public access	Waterside-Loysburg Water Assn Res
No	CCD				No public access	Pence Dam
No	CCD				No public access	Salemville Water Assn,Inc-Reservoir
No	CCD				No public access	Keagy Dam -Breached
No	CCD	Yes			No public access	Lake Caledonia Dam
No	CCD				No public access	Lower Red Oaks Dam
Unk	CCD	No	Yes		D(t)<14 days	Saxton Mun Wtrworks - Putts H Resvr
No	SRBC	Yes		Yes	Posted no trespass	Millwater Dam
No	SRBC	No	Yes	Yes	Ccd-yes but posted no tres	Sproul Lime-Sand Banks Ponds-Public Fishing
					D(t)<14 days	Storage Dam
No	CCD				No public access	Altoona City Water Dept Little Alle
No	CCD	Yes			No public access	Altoona City Water Dept Mill Run Da
No	CCD	Yes			No public access	Mill Run Dam
No	CCD				No public access	Altoona City Water Dept Superhigh
No	CCD				No public access	Altoona Lower No.2 Dam
No	CCD				No public access	Altoona City Water Dept Homers Gap
No	CCD	Yes			No public access	Altoona City Water Dept Bellwood
No	CCD	Yes			No public access	Bellwood Dam
No	CCD	Yes			No public access	Brush Mountain Dam -Members Only
No	CCD	Yes			No public access	Pottsgrove -Breached
No	CCD				No public access	Bellemead Civic W Assn Instr Res
No	CCD				No public access	Plane Nine Dam
No	CCD				No public access	Hollidaysburg Wtr Auth - Muleshoe R
No	CCD				No public access	Muleshoe Dam
No	CCD				No public access	Altoona City Water Dept Pl #9& Blair
No	CCD				No public access	Blair Gap Dam
No	CCD				No public access	Hollidaysburg Wtr Auth - Brush Mt R
No	CCD				No public access	Hollidaysburg Wtr Auth - Kladdr Res
No	CCD				No public access	Duncansville M A Maple Hollow Res
No	CCD				No public access	Duncansville Reservoir
Yes	CCD	No	Yes		D(t)<14 days	Lakemont Park Dam Amusemt Pk 814-949-7279
No	CCD	Yes			No public access	Lake Altoona Dam
No	CCD	Yes			No public access	Altoona City Water Dept Lake Altoon
No	CCD	Yes			No public access	Lower Impounding Dam
No	CCD				No public access	Upper Kittanning
No	CCD				No public access	Altoona City Water Dept Kitt Pt Res
No	CCD	Yes			No public access	Altoona City Water Dept Impounding
No	CCD				No public access	Martinsburg Boro Mun Auth Reservoir
No	CCD				No public access	East Sharpsburg Water Assn Reser
No	CCD				No public access	Steam Pump Dam
No	CCD	Yes			No public access	Biddle Hollow Res. -Breached
No	CCD	Yes			No public access	Tipton Dam
No	CCD	Yes			No public access	Altoona City Water Dept Tipton

Table A1. Lakes With No Public Access or Detention Time Less Than 14 Days (D(t) <14)—Continued

Source	Lake or Reservoir ID Number and Name		County ID Number and Name		Latitude	Longitude	Quad	USGS Quad
DDB	72	Sink Run Reservoir #1	7	Blair	40-41-18	78-16-12	1319	Tipton
DDB	73	Sink Run Reservoir #2	7	Blair	40-41-24	78-16-00	1319	Tipton
DDB	74	Tyrone Boro Water Dept Reservoir #2	7	Blair	40-41-25	78-16-10	1319	Tipton
DDB	47	Williamsburg Station - Penelec	7	Blair	40-28-18	78-12-30	1520	Williamsburg
DDB	97	Miller Pond Dam	8	Bradford	41-55-00	76-43-00	332	Bentley Creek
DDB	99	Ridgebury Lake	8	Bradford	41-56-06	76-39-24	332	Bentley Creek
DDB	100	Galvin Pond Dam *	8	Bradford	41-56-55	76-41-39	332	Bentley Creek
SRBC	902	Blakeslee Pond	8	Bradford	41-53-33	76-38-01	332	Bentley Creek
SRBC	899	Unnamed	8	Bradford	41-54-03	*76-43-38*	332	Bentley Creek
SRBC	900	Unnamed (Mormon Lake)	8	Bradford	41-54-43	76-44-00	332	Bentley Creek
SRBC	903	Unnamed	8	Bradford	41-56-45	76-37-45	332	Bentley Creek
DDB	77	Brague Dam	8	Bradford	41-37-31	76-50-38	531	Canton
DDB	78	Canton Boro Auth Lake Nephawin	8	Bradford	41-37-59	76-50-39	531	Canton
DDB	86	Sugar Creek	8	Bradford	41-44-42	76-47-12	531	Canton
DDB	75	Saxe Pond Dam	8	Bradford	41-33-00	76-19-06	635	Colley
SRBC	904	Unnamed (Sellecks Pond)	8	Bradford	41-45-16	76-37-55	432	East Troy
SRBC	907	Unnamed (Geroulds Pond)	8	Bradford	41-49-33	76-38-45	432	Dickinson
SRBC	908	Unnamed (Laurel Lake)	8	Bradford	41-52-36	76-46-42	331	Gillett
DDB	105	Ciccotti Dam *	8	Bradford	41-59-35	76-49-36	331	Gillett
SRBC	909	Brown Pond	8	Bradford	41-39-42	76-11-12	536	Laceyville
DDB	84	Mill Creek Dam	8	Bradford	41-43-24	76-10-18	536	Laceyville
SRBC	912	Long Swamp	8	Bradford	41-43-48	76-09-52	536	Laceyville
DDB	88	Totem Lake	8	Bradford	41-45-36	76-14-30	436	Le Raysville
SRBC	913	Leisure Lakes	8	Bradford	41-46-50	76-11-19	436	Leraysville
SRBC	916	Agnew Pond	8	Bradford	41-48-52	76-11-58	436	Leraysville
SRBC	917	Holcomb Pond	8	Bradford	41-39-12	76-42-01	532	Leroy
SRBC	919	Unnamed (Jennings Pond)	8	Bradford	41-41-45	76-43-54	532	Leroy
SRBC	920	Unnamed	8	Bradford	41-42-23	76-38-22	532	Leroy
SRBC	921	Bayards Pond (a.k.a. Brenchleys Lake)	8	Bradford	41-54-45	76-23-06	334	Litchfield
SRBC	922	Unnamed (Snake Lake)	8	Bradford	41-56-33	76-23-20	334	Litchfield
SRBC	923	Unnamed (Lakewood)	8	Bradford	41-56-48	76-24-05	334	Litchfield
DDB	103	Pa Water Co Sayre Div South Resvr	8	Bradford	41-58-54	76-29-45	334	Litchfield
DDB	96	Cooks Pond Dam	8	Bradford	41-53-30	76-14-06	336	Little Meadows
SRBC	925	Highland Lake	8	Bradford	41-54-17	76-09-57	336	Little Meadows
SRBC	926	Lake of Meadows	8	Bradford	41-55-56	76-08-51	336	Little Meadows
DDB	101	Lake Jones	8	Bradford	41-56-57	76-10-44	336	Little Meadows
SRBC	928	Unnamed	8	Bradford	41-34-24	76-36-04	633	Overton
SRBC	929	Unnamed	8	Bradford	41-35-10	76-34-47	633	Overton
DDB	85	Rehfeldt Dam	8	Bradford	41-44-08	76-34-10	533	Powell
SRBC	932	Tamarack Pond	8	Bradford	41-45-56	76-19-10	435	Rome
SRBC	933	Unnamed (Gatz Pond)	8	Bradford	41-47-13	76-20-41	435	Rome
DDB	98	Chamberlain (a.k.a. Lake Macham)	8	Bradford	41-55-12	76-37-24	333	Sayre
DDB	102	Pa Water Co Sayre Div North Resvr	8	Bradford	41-58-32	76-30-08	333	Sayre
DDB	104	Queen Esther Lake Dam	8	Bradford	41-59-27	76-35-57	333	Sayre
DDB	90	Towanda Mun Wtr Auth Plank Rd Resv	8	Bradford	41-46-02	76-27-41	434	Towanda
DDB	91	Towanda Mun Wtr Auth Lime St Res	8	Bradford	41-46-04	76-27-07	434	Towanda
DHL	1127	Lake Wesauking	8	Bradford	41-48-24	76-23-54	434	Towanda
DDB	87	Hoherchak Dam	8	Bradford	41-45-08	76-52-09	431	Troy
SRBC	936	Tamarack Swamp	8	Bradford	41-45-46	76-50-53	431	Troy
DDB	92	Troy Boro Water Dept Reservoir	8	Bradford	41-46-58	76-48-05	431	Troy
DDB	93	Troy Boro Water Dept We Br Sugar Cr	8	Bradford	41-47-13	76-49-19	431	Troy
SRBC	937	Little Pond	8	Bradford	41-52-04	76-45-38	431	Troy
DDB	80	Billets Pond	8	Bradford	41-38-29	76-22-04	535	Wyalusing
SRBC	940	Unnamed	8	Bradford	41-38-44	76-19-10	535	Wyalusing
DDB	82	Pona Dam	8	Bradford	41-39-37	76-19-51	535	Wyalusing
DDB	83	Vanderpool Dam	8	Bradford	41-40-50	76-22-11	535	Wyalusing
SRBC	939	Spring Lake	8	Bradford	41-40-52	76-21-20	535	Wyalusing
SRBC	941	Unnamed	11	Cambria	40-43-16	78-45-35	1315	Barneboro

Public Access	Source	Sig	Digitized?	Visited	Comments	Lake or Reservoir Name
No	CCD				No Public Access	Sink Run Reservoir #1
No	CCD	Yes			No public access	Sink Run Reservoir #2
No	CCD				No public access	Tyrone Boro Water Dept Reservoir #2
Yes	CCD	No			D(t)<14 days	Williamsburg Station - Penelec
No		Yes		Yes		Miller Pond Dam
No	CCD	Yes	Yes	Yes		Ridgebury Lake
No		Yes	Yes	Yes	Dup. of #1132	Galvin Pond Dam *
No				Yes		Blakeslee Pond
No				Yes		Unnamed
No				Yes		Unnamed (Mormon Lake)
No				Yes		Unnamed
No	CCD	Yes				Brague Dam
No	DHL	Yes	Yes	Yes		Canton Boro Auth Lake Nephawin
					D(t)<14 days	Sugar Creek
No		Yes		Yes		Saxe Pond Dam
No				Yes		Unnamed (Sellecks Pond)
No				Yes		Unnamed (Geroulds Pond)
No				Yes		Unnamed (Laurel Lake)
No		Yes	Yes	Yes	Duplicate of #1133	Ciccotti Dam *
No				Yes		Brown Pond
No		Yes		Yes		Mill Creek Dam
No				Yes		Long Swamp
No		Yes		Yes		Totem Lake
No				Yes		Leisure Lakes
No				Yes		Agnew Pond
No				Yes		Holcomb Pond
No				Yes		Unnamed (Jennings Pond)
No				Yes		Unnamed
No				Yes		Bayards Pond (a.k.a. Brenchleys Lake)
No				Yes		Unnamed (Snake Lake)
No				Yes		Unnamed (Lakewood)
					No public access	Pa Water Co Sayre Div South Resvr
No		Yes		Yes		Cooks Pond Dam
No				Yes		Highland Lake
No				Yes		Lake of Meadows
No		Yes				Lake Jones
No				Yes		Unnamed
No				Yes		Unnamed
No		Yes				Rehfeldt Dam
No				Yes		Tamarack Pond
No				Yes		Unnamed (Gatz Pond)
No		Yes		Yes		Chamberlain (a.k.a. Lake Macham)
					No public access	Pa Water Co Sayre Div North Resvr
No		Yes		Yes		Queen Esther Lake Dam
					D(t)<14 days	Towanda Mun Wtr Auth Plank Rd Resv
					No public access	Towanda Mun Wtr Auth Lime St Res
No	DHL	Yes	Yes	Yes		Lake Wesauking
					D(t)<14 days	Hoherchak Dam
No				Yes		Tamarack Swamp
					No public access	Troy Boro Water Dept Reservoir
					D(t)<14 days	Troy Boro Water Dept We Br Sugar Cr
No				Yes		Little Pond
No		Yes				Billets Pond
No			Yes	Yes		Unnamed
					D(t)<14 days	Pona Dam
					D(t)<14 days	Vanderpool Dam
No				Yes		Spring Lake
No	CCD				No public access	Unnamed

Table A1. Lakes With No Public Access or Detention Time Less Than 14 Days (D(t) <14)—Continued

Source	Lake or Reservoir ID Number and Name		County ID Number and Name		Latitude	Longitude	Quad	USGS Quad
DDB	125	Barnesboro Water Co Res #1	11	Cambria	40-39-48	78-47-21	1315	Barnesboro
DDB	123	Prince Gallitzin State Reservoir	11	Cambria	40-39-25	78-28-20	1318	Blandburg
DDB	112	St Francis College Reservoir	11	Cambria	40-31-06	78-38-12	1416	Carrolltown
DDB	113	Armsbry Water Auth Reservoirs 1&2	11	Cambria	40-32-01	78-34-04	1417	Carrolltown
DDB	114	Gallitzin Water Dept Dam #2	11	Cambria	40-33-25	78-33-00	1417	Carrolltown
DDB	115	Gallitzin Water Dept Dam #3	11	Cambria	40-33-27	78-33-00	1417	Carrolltown
DHL	1092	W. Carroll Twp. Wtr. Auth. Bakerton Res. *	11	Cambria	40-35-27	78-43-42		Carrolltown
SRBC	942	Williams Run Res.	11	Cambria	40/30/04	78-46-24	1415	Colver
DHL	1091	Spangler Mun. Auth. Schirf's Run	11	Cambria	40-35-32	78-47-38		Colver
DHL	1094	Big Brown Dam*	11	Cambria	40-37-00	78-46-54		Colver
DDB	107	Highland Swr&Wtr Auth-Gallitzin Bsn	11	Cambria	40-28-40	78-32-55	1517	Cresson
DDB	108	Gallitzin Water Dept Oriental Res	11	Cambria	40-28-41	78-33-22	1517	Cresson
SRBC	944	Cresson Lake	11	Cambria	40-29-12	78-36-15	1517	Cresson
DDB	109	Gallitzin Water Dept Dam #4	11	Cambria	40-29-39	78-33-30	1517	Cresson
DDB	110	Gallitzin Water Dept Dam #1	11	Cambria	40-29-40	78-33-27	1517	Cresson
DDB	111	Gallitzin Water Dept Dam #5	11	Cambria	40-29-42	78-33-24	1517	Cresson
DDB	121	W Carroll Twp W A St.Bnd-Reservoir	11	Cambria	40-37-50	78-42-56	1316	Hastings
DDB	124	Elder Township Auth-Raw Wtr Reserv	11	Cambria	40-39-33	78-41-05	1316	Hastings
DDB	130	Emporium Water Co Salt Run Res	12	Cameron	41-32-22	78-11-10	620	Emporium
DDB	131	Salt Run Reservoir	12	Cameron	41-32-24	78-11-12	620	Emporium
DDB	129	Emporium Water Co Towner Run Res	12	Cameron	41-30-07	78-17-04	619	Rich Valley
DDB	154	Penn Twp Water Dist Stillhouse Res	14	Centre	40-51-16	77-27-58	1226	Coburn
DDB	141	Pa American Wtr Co Mosh Osceola L	14	Centre	40-48-13	78-16-05	1219	Houtzdale
DDB	143	Pa American Wtr Co Mosh Osceola M	14	Centre	40-48-16	78-16-03	1219	Houtzdale
DDB	144	Pa American Wtr Co Mosh Osceola U	14	Centre	40-48-17	78-15-54	1219	Houtzdale
DDB	164	Milheim Boro Water Co Reservoir	14	Centre	40-54-40	77-28-50	1126	Millheim
DDB	160	Recreation Dam	14	Centre	40-54-00	78-12-36	1120	Phillipsburg
DDB	151	Pa American Wtr Co Moshannon Dam 3	14	Centre	40-50-55	78-12-32	1220	Sandy Ridge
DDB	152	Cold Stream (Upper) Dam	14	Centre	40-51-00	78-12-36	1220	Sandy Ridge
DDB	158	Pa American Wtr Co Moshannon Dam 2	14	Centre	40-52-29	78-12-23	1220	Sandy Ridge
DDB	174	Snow Shoe Boro Auth Reservoir	14	Centre	41-00-02	77-55-40	1022	Snow Shoe
DDB	175	Snow Shoe Boro Auth Lower Reservoir	14	Centre	41-00-04	77-55-46	1022	Snow Shoe
DDB	177	Snow Shoe Twp Mun Auth-Reservoir	14	Centre	41-02-13	77-56-29	1022	Snow Shoe
DDB	136	Penn Nursery	14	Centre	40-46-36	77-37-12	1225	Spring Mills
DDB	133	State College Boro Wa Auth Reser	14	Centre	40-45-11	77-49-06	1223	State College
DDB	150	Rockview Reservoir Dam *	14	Centre	40-50-00	77-45-18	1223	State College
DDB	182	Wastewater Treatment	15	Chester	39-46-51	76-00-12	2037	Kirkwood
DDB	185	Pond No.1	15	Chester	39-54-49	75-58-20	1938	Parkesburg
DDB	186	Pond No.2	15	Chester	39-54-51	75-58-25	1938	Parkesburg
DDB	206	Moose Creek Reservoir *	17	Clearfield	41-03-18	78-28-18	1018	Clearfield
DDB	202	Pike Township *	17	Clearfield	41-01-12	78-34-12	1017	Elliot Park
DDB	204	Montgomery (a.k.a. Clearfield Res) *	17	Clearfield	41-01-48	78-30-48	1017	Elliot Park
DDB	210	Quehanna Covington Sandy Creek Res	17	Clearfield	41-06-48	78-12-53	1020	Frenchville
DDB	191	Hockenberry Run Dam	17	Clearfield	40-45-03	78-36-09	1217	Irvona
DDB	192	Irvona Mun Authority Hocken Res	17	Clearfield	40-45-05	78-36-09	1217	Irvona
DDB	209	Anderson Creek Dam *	17	Clearfield	41-05-48	78-38-00	1016	Luthersburg
DDB	198	Cooper T M A - Black Bear Run Resvr	17	Clearfield	40-54-20	78-09-08	1120	Phillipsburg
DDB	214	Williams Pond	17	Clearfield	41-12-14	78-40-22	916	Sabula
DDB	240	Chatham Water Co Caldwell Reservoir	18	Clinton	41-15-28	77-26-09	826	Jersey Mills
DDB	237	Garman	18	Clinton	41-15-14	77-58-39	822	Keating
DDB	230	Suburban Lock Haven Water Auth Ram	18	Clinton	41-12-04	77-27-22	926	Lock Haven
DDB	231	Suburban Lock Haven Water Auth Jerr	18	Clinton	41-12-15	77-28-30	926	Lock Haven
DDB	232	Chatham Water Co Woolrich Res #1	18	Clinton	41-12-35	77-23-14	926	Lock Haven
DDB	233	Chatham Water Co Woolrich Res #2	18	Clinton	41-12-39	77-23-22	926	Lock haven
DDB	223	Ohl Dam - Lock Haven City Res	18	Clinton	41-04-24	77-19-21	1027	Loganton
DDB	229	Mcelhattan Dam *	18	Clinton	41-07-30	77-20-18	1027	Loganton
DDB	226	Lock Haven City Auth Castanea Res	18	Clinton	41-06-57	77-25-20	1026	Mill Hall
DDB	242	Renovo Boro Water Dept Paddys R Res	18	Clinton	41-20-08	77-43-43	824	Renovo East

Public Access	Source	Sig	Digitized?	Visited	Comments	Lake or Reservoir Name
No	CCD				No public access	Barnesboro Water Co Res #1
No	CCD				No public access	Prince Gallitzin State Reservoir
No	CCD				No public access	St Francis College Reservoir
No	CCD				No public access	Armsbry Water Auth Reservoirs 1 & 2
No	CCD				No public access	Gallitzin Water Dept Dam #2
No	CCD				No public access	Gallitzin Water Dept Dam #3
No	CCD	Yes	Yes		Duplicate of #1093,116,117	W. Carroll Twp. Wtr. Auth. Bakerton Res. *
No	CCD				No public access	Williams Run Res.
Unk	DHL	Yes				Spangler Mun. Auth. Schirf's Run
No	DHL	Yes	Yes	Yes	Duplicate of #118, 119	Big Brown Dam*
No	CCD				No public access	Highland Swr&Wtr Auth-Gallitzin Bsn
No	CCD				No public access	Gallitzin Water Dept Oriental Res
No	CCD		Yes	Yes		Cresson Lake
No	CCD				No public access	Gallitzin Water Dept Dam #4
No	CCD				No public access	Gallitzin Water Dept Dam #1
No	CCD				No public access	Gallitzin Water Dept Dam #5
No	CCD				No public access	W Carroll Twp W A St.Bnd-Reservoir
No	CCD				No public access	Elder Township Auth-Raw Wtr Reserv
					D(t)<14 days	Emporium Water Co Salt Run Res
					Duplicate of #130	Salt Run Reservoir
					D(t)<14 days	Emporium Water Co Towner Run Res
					D(t)<14 days	Penn Twp Water Dist Stillhouse Res
					D(t)<14 days	Pa American Wtr Co Mosh Osceola L
					D(t)<14 days	Pa American Wtr Co Mosh Osceola M
					D(t)<14 days	Pa American Wtr Co Mosh Osceola U
					D(t)<14 days	Milheim Boro Water Co Reservoir
					D(t)<14 days	Recreation Dam
					D(t)<14 days	Pa American Wtr Co Moshannon Dam 3
					D(t)<14 days	Cold Stream (Upper) Dam
					D(t)<14 days	Pa American Wtr Co Moshannon Dam 2
					No public access	Snow Shoe Boro Auth Reservoir
					No public access	Snow Shoe Boro Auth Lower Reservoir
					No public access	Snow Shoe Twp Mun Auth-Reservoir
					D(t)<14 days	Penn Nursery
					D(t)<14 days	State College Boro Wa Auth Reser
					Duplicate of #149	Rockview Reservoir Dam *
					D(t)<14 days	Wastewater Treatment
					D(t)<14 days	Pond No.1
					D(t)<14 days	Pond No.2
No		Yes			Duplicate of #207	Moose Creek Reservoir *
					Duplicate of #201	Pike Township *
No		Yes			Duplicate of #205	Montgomery (a.k.a. Clearfield Res.) *
No				Yes		Quehanna Covington Sandy Creek Res
					D(t)<14 days	Hockenberry Run Dam
No						Irvona Mun Authority Hocken Res
No		Yes			Duplicate of #208	Anderson Creek Dam *
No						Cooper T M A - Black Bear Run Resvr
					D(t)<14 days	Williams Pond
					D(t)<14 days	Chatham Water Co Caldwell Reservoir
					D(t)<14 days	Garman
					No public access	Suburban Lock Haven Water Auth Ram
					No public access	Suburban Lock Haven Water Auth Jerr
					D(t)<14 days	Chatham Water Co Woolrich Res #1
					No public access	Chatham Water Co Woolrich Res #2
					No public access	Ohl Dam - Lock Haven City Res
		Yes			Duplicate of #228	Mcelhattan Dam *
					D(t)<14 days	Lock Haven City Auth Castanea Res
					D(t)<14 days	Renovo Boro Water Dept Paddys R Res

Table A1. Lakes With No Public Access or Detention Time Less Than 14 Days (D(t) <14)—Continued

Source	Lake or Reservoir ID Number and Name		County ID Number and Name		Latitude	Longitude	Quad	USGS Quad
DDB	241	South Renovo Boro Water Dept Reserv	18	Clinton	41-18-00	77-47-10	823	Renovo West
DDB	243	Renovo Boro Water Dept Drury Run Re	18	Clinton	41-21-13	77-48-33	823	Renovo West
DDB	234	Camp Ground	18	Clinton	41-14-48	77-59-10	922	Snow Shoe Nw
DDB	235	Connor	18	Clinton	41-14-48	77-59-01	922	Snow Shoe Nw
DDB	247	Roaring Cr Wtr Co-Klines Dam	19	Columbia	40-50-15	76-21-53	1235	Ashland
DDB	249	Bloomsburg Water Co Reservoir #1	19	Columbia	41-00-33	76-27-38	1034	Bloomsburg
DDB	258	Millville Mun Water Auth Reservoir	19	Columbia	41-07-34	76-31-03	933	Lairdsville
DDB	257	Valley View Lake	19	Columbia	41-07-06	76-31-00	1033	Millville
DDB	273	Williams Grove M H Park Spring Res	21	Cumberland	40-08-54	77-02-34	1729	Mechanicsburg
DDB	268	Wolff Farm	21	Cumberland	40-04-00	77-10-18	1828	Mount Holly Springs
DDB	269	Toland Quarry Dams A" and "B"	21	Cumberland	40-04-32	77-12-54	1828	Mount Holly Springs
DDB	275	Stonehedge Dam #3	21	Cumberland	40-10-48	77-12-33	1728	Carlisle
DDB	276	Stonehedge Dam #2	21	Cumberland	40-11-02	77-12-35	1728	Carlisle
DDB	277	Stonehedge Dam #1	21	Cumberland	40-11-04	77-12-27	1728	Carlisle
DDB	278	Carlisle Boro Mun Auth Conodoquinet	21	Cumberland	40-13-24	77-11-24	1728	Carlisle
DDB	265	Knouse Foods	21	Cumberland	40-02-13	77-13-51	1828	Mount Holly Springs
DDB	271	Raymond A. Bender & Son	21	Cumberland	40-06-10	77-13-19	1828	Mount Holly Springs
DDB	263	Shippensburg Water System Clebg Res	21	Cumberland	40-00-38	77-27-44	1826	Walnut Bottom
DDB	282	John P. Hall Dam	21	Cumberland	40-15-42	77-02-46	1629	Wertzville
SRBC	945	Unnamed Lake (a.k.a. Camp Jolijm Lake)	21	Cumberland	40-16-32	77-25-20	1626	Andersonburg
DHL	1082	Unnamed	22	Dauphin	40-21-18	76-40-50		Hershey
DDB	302	Pillow Boro Wa Auth Mifflin Twp Res	22	Dauphin	40-37-34	76-48-17		Elizabethville
DDB	303	Pillow Boro Wa Auth Mifflin Twp Res	22	Dauphin	40-37-35	76-48-14		Elizabethville
DDB	304	Pillow Boro Wa Au Main Reservoir #2	22	Dauphin	40-38-18	76-48-09		Elizabethville
DDB	292	Harrisburg Authority Dehart Res	22	Dauphin	40-27-45	76-44-45	1532	Grantville
DDB	288	Olin Miller Dam *Not Shown on Map, Airphoto	22	Dauphin	40-19-15	76-37-37	1632	Harrisburg East
DDB	289	Keiser Dam-Not Shown on Map or Airphoto	22	Dauphin	40-20-34	76-50-15	1631	Harrisburg East
DDB	290	Hidden Valley Dam	22	Dauphin	40-21-42	76-53-12	1630	Harrisburg West
DDB	291	Dauphin Cons Water Supp Co Stoney C	22	Dauphin	40-21-57	76-55-41	1630	Harrisburg West
DDB	296	Lykens Boro Auth East Branch Dam	22	Dauphin	40-33-02	76-41-28	1432	Lykens
DDB	295	Lykens Boro Auth Main Reservoir	22	Dauphin	40-33-02	76-41-32	1432	Lykens
DDB	297	Lykens Boro Auth West Branch Dam	22	Dauphin	40-33-03	76-41-35	1432	Lykens
DDB	298	Williamstown Boro Auth Ratt R Catch	22	Dauphin	40-33-07	76-39-03	1432	Lykens
DDB	301	Gratz Boro Authority Reservoir	22	Dauphin	40-36-23	76-42-46	1432	Lykens
DDB	284	Middletown Mun Iron Mine Run Reserv	22	Dauphin	40-12-30	76-41-21	1732	Middletown
SRBC		Wolf Lick Res	24	Elk	41-22-08	78-30-32	817	Kersey
DDB	313	Letterkenny Army Depot Impound Dam	28	Franklin	40-06-54	77-41-21	1824	Roxbury
DDB	312	Shippensburg Water System Stoney Pt	28	Franklin	39-59-20	77-30-05	1925	Scotland
DDB	316	Gunters Valley *	28	Franklin	40-08-24	77-40-18	1724	Doylesburg
DDB	320	Valley-Hi Eagle Lake	29	Fulton	40-02-06	78-11-00	1820	Well Tannery
DDB	334	Warrior Ridge Dam	31	Huntingdon	40-32-24	78-01-54	1421	Alexandria
DDB	336	Petersburg Waterworks Reservoir	31	Huntingdon	40-36-35	78-03-00	1421	Alexandria
DDB	324	Mt Union Mun Wtrwks Singers Gap Res	31	Huntingdon	40-19-21	77-56-44	1622	Butler Knob
DDB	327	Huntington Boro Water Dept Int Dam	31	Huntingdon	40-29-02	78-00-07	1521	Huntingdon
DDB	325	Mapleton Mun Wtr Auth-Scrub Reserv	31	Huntingdon	40-22-41	77-56-27	1522	Mount Union
DDB	332	Alexandria Boro Water Auth Res #1	31	Huntingdon	40-31-29	78-08-19	1420	Spruce Creek
DDB	323	Mount Union	31	Huntingdon	40-19-18	77-56-42	1622	Butler Knob
DDB	337	Franklinville Water Company-Resv	31	Huntingdon	40-38-30	78-04-53	1321	Franklinville
DDB	322	Neelyton Water Co-Op Reservoir	31	Huntingdon	*40-09-33*	*77-49-21*	1723	Shade Gap
PBB	947	Pioneer Lake	32	Indiana	40-44-10	78-51-15	1315	Barneboro
DDB	342	Cherry Tree Bo Mun Auth Instream	32	Indiana	40-42-12	78-48-52	1315	Barnesboro
DDB	343	Indiana Co Mun Ser Auth Shyrock Res	32	Indiana	40-45-52	78-49-32	1215	Burnside
DDB	344	Indiana Co Mun Ser Auth Clearbasin	32	Indiana	40-46-34	78-50-50	1215	Burnside
DDB	354	Fogelman Mill Race Dam	34	Juniata	40-38-32	77-17-49	1327	McClure
DDB	346	Port Royal Mun Auth Reservoir 'A'	34	Juniata	40-30-10	77-22-10	1427	Mexico
DDB	347	Port Royal Mun Auth Reservoir 'B'	34	Juniata	40-30-16	77-22-12	1427	Mexico
DDB	348	Mifflintown Mun Auth Clearview Res	34	Juniata	40-33-54	77-25-54	1426	Mifflintown

Public Access	Source	Sig	Digitized?	Visited	Comments	Lake or Reservoir Name
					D(t)<14 days	South Renovo Boro Water Dept Reserv
					No public access	Renovo Boro Water Dept Drury Run Re
					D(t)<14 days	Camp Ground
					D(t)<14 days	Connor
					D(t)<14 days	Roaring Cr Wtr Co-Klines Dam
No	CCD	Yes			No public access	Bloomsburg Water Co Reservoir #1
No	CCD	Yes			No public access	Millville Mun Water Auth Reservoir
No	CCD	Yes			No public access	Valley View Lake
No	SRBC			Yes	Lake is drained	Williams Grove M H Park Spring Res
No	SRBC	Yes		Yes		Wolff Farm
No	SRBC			Yes	Posted and gated	Toland Quarry Dams A" and "B"
					D(t)<14 days	Stonehedge Dam #3
					D(t)<14 days	Stonehedge Dam #2
					D(t)<14 days	Stonehedge Dam #1
					D(t)<14 days	Carlisle Boro Mun Auth Conodoquinet
		Yes			No public access	Knouse Foods
					D(t)<14 days	Raymond A. Bender & Son
					D(t)<14 days	Shippensburg Water System Clebg Res
No	JRH	Yes			No public access	John P. Hall Dam
No	SRBC		Yes	Yes		Unnamed Lake (a.k.a. Camp Jolijm Lake)
No	SRBC	Yes	Yes	Yes	Posted no trespass	Unnamed
No*	CCD-Not Shown				No public access	Pillow Boro Wa Auth Mifflin Twp Res
No*	CCD-Not Shown				No public access	Pillow Boro Wa Auth Mifflin Twp Res
No*	CCD-Not Shown				No public access	Pillow Boro Wa Au Main Reservoir #2
		Yes			No public access	Harrisburg Authority Dehart Res
No*	CCD				No public access	Olin Miller Dam *Not Shown on Map or Airphoto
No*	CCD				No public access	Keiser Dam-Not Shown on Map or Airphoto
					D(t)<14 days	Hidden Valley Dam
					D(t)<14 days	Dauphin Cons Water Supp Co Stoney C
					No public access	Lykens Boro Auth East Branch Dam
					D(t)<14 days	Lykens Boro Auth Main Reservoir
					No public access	Lykens Boro Auth West Branch Dam
					D(t)<14 days	Williamstown Boro Auth Ratt R Catch
No*	CCD-Not Shown				No public access	Gratz Boro Authority Reservoir
					D(t)<14 days	Middletown Mun Iron Mine Run Reserv
No	CCD		Yes	Yes		Wolf Lick Res
					D(t)<14 days	Letterkenny Army Depot Impound Dam
					D(t)<14 days	Shippensburg Water System Stoney Pt
No	SRBC	Yes		Yes	Duplicate of #315	Gunters Valley *
No	CCD	Yes			No public access	Valley-Hi Eagle Lake
Yes	CCD	No			D(t)<14 days	Warrior Ridge Dam
					D(t)<14 days	Petersburg Waterworks Reservoir
					D(t)<14 days	Mt Union Mun Wtrwks Singers Gap Res
					D(t)<14 days	Huntington Boro Water Dept Int Dam
					D(t)<14 days	Mapleton Mun Wtr Auth-Scrub Reserv
					D(t)<14 days	Alexandria Boro Water Auth Res #1
No	SRBC	Yes		Yes		Mount Union
No	SRBC		Yes	Yes		Franklinville Water Company-Resv
No	SRBC			Yes		Neelyton Water Co-Op Reservoir
No	CCD				No public access	Pioneer Lake
No	CCD				No public access	Cherry Tree Bo Mun Auth Instream
No	CCD				No public access	Indiana Co Mun Ser Auth Shyrock Res
No	CCD				No public access	Indiana Co Mun Ser Auth Clearbasin
No	CCD				No public access	Fogelman Mill Race Dam
No	CCD				No public access	Port Royal Mun Auth Reservoir 'A'
No	CCD				No public access	Port Royal Mun Auth Reservoir 'B'
No	CCD				No public access	Mifflintown Mun Auth Clearview Res

Table A1. Lakes With No Public Access or Detention Time Less Than 14 Days (D(t) <14)—Continued

Source	Lake or Reservoir ID Number and Name		County ID Number and Name		Latitude	Longitude	Quad	USGS Quad
DDB	351	Mifflintown Mun Auth Denholm Res	34	Juniata	40-35-56	77-26-09	1426	Mifflintown
DDB	352	Mifflintown Mun Auth Macedonia In D	34	Juniata	40-37-15	77-26-48	1426	Mifflintown
DDB	349	Thompsontown Mun Auth Reservoir #1	34	Juniata	40-34-34	77-13-06	1428	Millerstown
DDB	350	Thompsontown Mun Auth Reservoir #2	34	Juniata	40-34-36	77-13-06	1428	Millerstown
DDB	353	Jay Fulkroad & Sons - New Reservoir	34	Juniata	40-37-25	77-14-55	1428	Millerstown
DDB	358	Pa Gas & Water Co Nesbitt Res	35	Lackawanna	41-19-34	75-39-15	840	Avoca
DDB	359	Pa Gas & Water Co Maple Lake Res *	35	Lackawanna	41-19-34	75-35-03	841	Moscow
DDB	361	Springbrook Intake	35	Lackawanna	41-19-48	75-41-18	840	Avoca
DDB	362	Pa Gas & Water Co Springbk Intake	35	Lackawanna	41-19-49	75-41-09	840	Avoca
DDB	364	Glenwood Lake Dam	35	Lackawanna	41-20-58	75-42-20	840	Avoca
DDB	365	Rocky Glen	35	Lackawanna	41-21-12	75-42-24	840	Avoca
DDB	366	Pa Gas & Water Co No 5 Dam	35	Lackawanna	41-21-37	75-40-12	840	Avoca
DDB	410	Aylesworth Ck. Mine Drainage Dam	35	Lackawanna	41-31-12	75-31-25	641	Carbondale
DDB	411	Pa Gas & Water Co Edgerton	35	Lackawanna	41-31-50	75-30-16	641	Carbondale
DDB	414	Pa Gas & Water Co Rushbrook	35	Lackawanna	41-32-56	75-33-56	641	Carbondale
SRBC	948	Graves Pond	35	Lackawanna	41-34-07	75-36-40	641	Carbondale
DDB	421	Pa Gas & Water Co Heart Lake	35	Lackawanna	41-34-30	75-35-18	641	Carbondale
DDB	425	Pa Gas & Water Co Fallbrook	35	Lackawanna	41-36-03	75-31-24	641	Carbondale
DDB	426	Pa Gas & Water Co Crystal Lake	35	Lackawanna	41-38-09	75-31-54	541	Clifford
SRBC	951	Glenburn Pond	35	Lackawanna	41-31-08	75-43-40	640	Dalton
SRBC	952	Lilly Lake	35	Lackawanna	41-32-06	75-43-21	640	Dalton
SRBC	953	Manataka Lake	35	Lackawanna	41-34-50	75-44-00	640	Dalton
SRBC	956	Deer Lake	35	Lackawanna	41-35-08	75-41-31	640	Dalton
SRBC	954	Lake Kewanee	35	Lackawanna	41-35-31	75-44-01	640	Dalton
SRBC	955	Bassett Pond	35	Lackawanna	41-35-35	75-42-30	640	Dalton
DDB	424	Duck Pond	35	Lackawanna	41-36-00	75-40-27	640	Dalton
SRBC	957	Baylors Pond	35	Lackawanna	41-36-20	75-43-37	640	Dalton
SRBC	958	Sicklers Pond	35	Lackawanna	41-36-25	77-37-41	640	Dalton
DDB	428	Pa Gas & Water Co Stillwater	35	Lackawanna	41-40-54	75-28-24	542	Forest City
DDB	356	Pa Gas & Water Co Watres Reservoir	35	Lackawanna	41-17-30	75-37-03	841	Moscow
DHL	1097	Compton Dam	35	Lackawanna	41-17-30	75-32-48		Moscow
DDB	369	Pa Gas & Water Co Williams Bridge	35	Lackawanna	41-22-24	75-37-24	841	Moscow
DDB	374	Williams Bridge Reservoir	35	Lackawanna	41-23-00	75-37-12	741	Olyphant
DDB	375	Elmcrest (a.k.a. Mud Pond)	35	Lackawanna	41-23-01	75-31-51	741	Olyphant
DDB	378	No.7 Reservoir	35	Lackawanna	41-24-42	75-36-24	741	Olyphant
DDB	379	Pa Gas & Water Co No 7	35	Lackawanna	41-24-46	75-36-26	741	Olyphant
DDB	385	Dunmore No.3	35	Lackawanna	41-25-12	75-32-30	741	Olyphant
DDB	382	Pa Gas & Water Co Dunmor No 3	35	Lackawanna	41-25-14	75-32-24	741	Olyphant
DDB	383	Pa Gas & Water Co Marshwood	35	Lackawanna	41-25-15	75-32-24	741	Olyphant
DDB	384	Pa Gas & Water Co Dunmor No 4	35	Lackawanna	41-25-22	75-32-12	741	Olyphant
DDB	386	Marshwood	35	Lackawanna	41-26-00	75-33-42	741	Olyphant
DDB	387	Pa Gas & Water Co O'conner -Moosic Mtn	35	Lackawanna	41-27-09	75-32-45	741	Olyphant
DDB	388	Pa Gas & Water Co Olyphant No 2 *	35	Lackawanna	41-27-24	75-32-06	741	Olyphant
DDB	389	Pa Gas & Water Co Olyphant No 1 *	35	Lackawanna	41-27-48	75-32-18	741	Olyphant
DDB	396	Pa Gas & Water Co Olyphant No 3 *	35	Lackawanna	41-28-20	75-31-46	741	Olyphant
DDB	401	Pa Gas & Water Co Laurel Run *	35	Lackawanna	41-29-12	75-31-24	741	Olyphant
DDB	409	Pa Gas & Water Co White Oak	35	Lackawanna	41-29-48	75-31-12	741	Olyphant
DDB	373	Pa Gas & Water Co Falling Spgs Res	35	Lackawanna	41-22-59	75-47-00	739	Ransom
DDB	372	Pa Gas & Water Co Lake Scranton	35	Lackawanna	41-22-59	75-38-14	740	Scranton
DDB	377	Sedimentation Basin #1	35	Lackawanna	41-23-36	75-44-11	740	Scranton
DDB	391	Pa Gas & Water Co Providence High S	35	Lackawanna	41-28-09	75-40-26	740	Scranton
DDB	394	Pa Gas & Water Co Maple Lake	35	Lackawanna	41-28-16	75-41-36	740	Scranton
DDB	397	Pa Gas & Water Co Larue Lake	35	Lackawanna	41-28-24	75-41-18	740	Scranton
DDB	405	Pa Gas & Water Co Griffin Intake D	35	Lackawanna	41-29-27	75-40-35	740	Scranton
DDB	406	Pa Gas & Water Co Hall Creek In Dam	35	Lackawanna	41-29-34	75-38-52	740	Scranton
DDB	407	Pa Gas & Water Co Griffin Lake	35	Lackawanna	41-29-47	75-39-54	740	Scranton
DDB	408	Griffin Dam	35	Lackawanna	41-29-48	75-40-00	740	Scranton
SRBC	959	Henry Lake	35	Lackawanna	41-17-08	75-29-10	842	Sterling

Public Access	Source	Sig	Digitized?	Visited	Comments	Lake or Reservoir Name
No	CCD				No public access	Mifflintown Mun Auth Denholm Res
No	CCD				No public access	Mifflintown Mun Auth Macedonia In D
No	CCD				No public access	Thompsontown Mun Auth Reservoir #1
No	CCD				No public access	Thompsontown Mun Auth Reservoir #2
No	CCD				No public access	Jay Fulkroad & Sons - New Reservoir
No	PA G&W	Yes		No	No public access	Pa Gas & Water Co Nesbitt Res
No	PA G&W	Yes	Yes	Yes	Duplicate of #360	Pa Gas & Water Co Maple Lake Res *
Yes	PA G&W			No	D(t)<14 days	Springbrook Intake
Yes	PA G&W	No		No	D(t)<14 days	Pa Gas & Water Co Springbk Intake
				No	D(t)<14 days	Glenwood Lake Dam
No	SRBC	Yes	Yes	Yes	No public access	Rocky Glen
No	PA G&W			No	No public access	Pa Gas & Water Co No 5 Dam
Yes	CCD	No		No	D(t)<14 days	Aylesworth Ck. Mine Drainage Dam
No	PA G&W			No	D(t)<14 days	Pa Gas & Water Co Edgerton
No	PA G&W			No	No public access	Pa Gas & Water Co Rushbrook
No	SRBC		Yes	Yeos	No public access	Graves Pond
No	PA G&W	Yes		No	No public access	Pa Gas & Water Co Heart Lake
No	PA G&W			No	No public access	Pa Gas & Water Co Fallbrook
No	PA G&W	Yes		No	No public access	Pa Gas & Water Co Crystal Lake
No	SRBC		Yes	Yes	Hiking permited, no fishing	Glenburn Pond
No	CCD			No	No public access	Lilly Lake
No	CCD			No	No public access	Manataka Lake
No	CCD			No	No public access	Deer Lake
No	CCD			No	No public access	Lake Kewanee
No	CCD			No	No public access	Bassett Pond
No	CCD	Yes		No	No public access	Duck Pond
No	CCD			No	No public access	Baylors Pond
No	CCD			No	No public access	Sicklers Pond
No	PA G&W			No	No public access	Pa Gas & Water Co Stillwater
No	PA G&W	Yes		No	No public access	Pa Gas & Water Co Watres Reservoir
No	SRBC	Yes	Yes	Yes	Posted- no public access	Compton Dam
No	PA G&W	Yes		No	No public access	Pa Gas & Water Co Williams Bridge
No	PA G&W	Yes		No	No public access	Williams Bridge Reservoir
No	SRBC	Yes	Yes	Yes	No public access	Elmcrest (a.k.a. Mud Pond)
				No	D(t)<14 days	No.7 Reservoir
No	PA G&W			No	No public access	Pa Gas & Water Co No 7
No	PA G&W	Yes		No	No public access	Dunmore No.3
No	PA G&W	Yes		No	No public access	Pa Gas & Water Co Dunmor No 3
No	PA G&W	Yes		Yes	No public access	Pa Gas & Water Co Marshwood
No	PA G&W	Yes		No	No public access	Pa Gas & Water Co Dunmor No 4
No	SRBC	Yes	Yes	Yes	No public access	Marshwood
No	PA G&W	Yes		No	No public access	Pa Gas & Water Co O'conner -Moosic Mtn
No	PA G&W	Yes		No	No public access	Pa Gas & Water Co Olyphant No 2 *
No	PA G&W			No	No public access	Pa Gas & Water Co Olyphant No 1 *
No	PA G&W	Yes		No	No public access	Pa Gas & Water Co Olyphant No 3 *
No	PA G&W			No	No public access	Pa Gas & Water Co Laurel Run *
No	PA G&W			No	No public access	Pa Gas & Water Co White Oak
No	PA G&W	Yes		No	No public access	Pa Gas & Water Co Falling Spgs Res
No	SRBC	Yes	Yes	Yes	Hiking trails	Pa Gas & Water Co Lake Scranton
				No	D(t)<14 days	Sedimentation Basin #1
No	PA G&W			N	No public access	Pa Gas & Water Co Providence High S
No	PA G&W			Y	Observed fishmen-Pa?	Pa Gas & Water Co Maple Lake
No	PA G&W			N	No public access	Pa Gas & Water Co Larue Lake
No	PA G&W			N	No public access	Pa Gas & Water Co Griffin Intake D
No	PA G&W			N	No public access	Pa Gas & Water Co Hall Creek In Dam
No	PA G&W	Yes		N	No public access	Pa Gas & Water Co Griffin Lake
No	PA G&W	Yes		N	No public access	Griffin Dam
No	CCD			N	No public access	Henry Lake

Table A1. Lakes With No Public Access or Detention Time Less Than 14 Days (D(t) <14)—Continued

Source	Lake or Reservoir ID Number and Name		County ID Number and Name		Latitude	Longitude	Quad	USGS Quad
DDB	355	Eagle Lake	35	Lackawanna	41-17-12	75-29-12	842	Sterling
DDB	357	Pa Gas & Water Co Hollister	35	Lackawanna	41-18-45	75-29-01	842	Sterling
DDB	417	Brownell Res.*	35	Lackawanna	41-34-24	75-28-18	642	Waymart
DHL	1095	Belmont Dam	35	Lackawanna	41-35-27	*75-28-52*		Waymart
DHL	1144	Mud Lake	36	Lancaster	40-03-22	76-27-04		Columba East
DHL	1143	Grubb Lake	36	Lancaster	40-03-36	76-27-52		Columba East
DDB	446	Unnamed	36	Lancaster	40-02-09	76-25-03	1834	Columbia East
DDB	456	Elizabethtown Boro Conoy Cr Dm	36	Lancaster	40-08-59	76-36-39	1733	Elizabethtown
DDB	459	Ephrata Mun Waterworks Cocalico Ck	36	Lancaster	40-11-06	76-10-46	1736	Ephrata
DDB	461	Twin Pine Dam	36	Lancaster	40-12-17	76-13-27	1736	Ephrata
DDB	431	Muddy Run Dam	36	Lancaster	39-49-00	76-18-00	2035	Holtwood
DDB	432	Pa Power & Light-Holtwood Dam *	36	Lancaster	39-49-38	76-20-02	2035	Holtwood
DDB	444	Gabel Park Woods	36	Lancaster	40-00-50	76-19-50	1835	Lancaster
DDB	448	High Realty Dam	36	Lancaster	40-03-28	76-15-07	1835	Lancaster
DDB	447	Stauffer Run Dam	36	Lancaster	40-03-15	76-14-30	1836	Leola
DDB	458	Manheim Water Dept Rife Run-Dam	36	Lancaster	40-10-02	76-24-26	1734	Manheim
DDB	455	Conestoga Dam	36	Lancaster	40-08-23	75-59-39	1738	Morgantown
DDB	451	New Holland Reservoir Dam	36	Lancaster	40-05-06	76-01-54	1837	New Holland
DDB	452	New Holland Boro Reservoir	36	Lancaster	40-05-09	76-01-51	1837	New Holland
DDB	439	Safe Harbor Hydroelectric Dam *	36	Lancaster	39-55-26	76-23-27	1934	Safe Harbor
DDB	440	Frey Dairy Farms Dam	36	Lancaster	39-57-29	76-26-43	1934	Safe Harbor
DDB	457	Zimmerman Dam	36	Lancaster	40-09-11	76-06-35	1737	Terre Hill
DDB	464	Martin Dam	36	Lancaster	40-16-00	76-08-20	1636	Womelsdorf
DDB	482	Snader Pond Dam	38	Lebanon	40-27-24	76-27-43	1534	Fredericksburg
DDB	484	Lake Strause	38	Lebanon	40-29-00	76-27-30	1534	Fredericksburg
DDB	483	Stouffer Lake	38	Lebanon	40-28-18	76-34-30	1533	Indiantown gap
DDB	467	Cornwall B Lebanon Co M A Upper Dam	38	Lebanon	40-15-40	76-24-09	1634	Lebanon
DDB	468	Cornwall B Lebanon Co M A Lower Dam	38	Lebanon	40-15-50	76-24-04	1634	Lebanon
DDB	537	Mill Creek	40	Luzerne	41-15-54	75-45-00	840	Avoca
SRBC	960	Unnamed	40	Luzerne	41-17-30	75-41-59	840	Avoca
SRBC	961	Unnamed	40	Luzerne	41-07-28	76-10-00	1036	Berwick
DDB	554	Lake Louise Dam	40	Luzerne	41-22-54	75-54-36	738	Center Moreland
DHL	1103	Unnamed (Lake Manjo?)	40	Luzerne	41-23-18	75-55-24		Center Moreland
DDB	555	Lake Catalpa Dam	40	Luzerne	41-23-36	75-59-36	738	Center Moreland
SRBC	963	Perrins Marsh	40	Luzerne	41-24-19	75-55-23	738	Center Moreland
SRBC	962	Cummings Pond	40	Luzerne	75-54-48	75-54-48	738	Center Moreland
DDB	486	Hazleton Wtr Auth-Mt Pleasant Res *	40	Luzerne	40-55-16	76-01-26	1137	Conyngham
DHL	1100	Grape Run Res.	40	Luzerne	40-56-06	76-00-18		Conyngham
DDB	487	Hazleton Wtr Auth-Humboldt Resrv *	40	Luzerne	40-56-28	76-03-48	1137	Conyngham
DDB	493	Beech Mountain Lake	40	Luzerne	41-02-54	75-55-30	1038	Freeland
DDB	528	Pa Gas & Water Co Pike Crk Headwrks	40	Luzerne	41-15-17	76-02-43	837	Harveys Lake
DDB	535	Pike Crk. Dam *	40	Luzerne	41-15-54	76-02-54	837	Harveys Lake
DDB	540	Pa Gas & Water Co Harvey Crk Headwk	40	Luzerne	41-16-13	76-02-22	837	Harveys Lake
DDB	489	Hazleton Wtr Auth-Harleigh Resrv	40	Luzerne	40-58-26	75-57-58	1138	Hazleton
DDB	525	Pa Gas & Water Co Coal Creek #4	40	Luzerne	41-15-08	75-58-24	838	Kingston
DDB	545	Pa Gas & Water Co Hillside Wtr Res *	40	Luzerne	41-17-57	75-55-43	838	Kingston
DDB	546	Pa Gas & Water Co Huntsville Reserv	40	Luzerne	41-18-27	75-58-28	838	Kingston
DDB	547	Huntsville Storage Dam	40	Luzerne	41-18-30	75-58-30	838	Kingston
SRBC	965	Kielar Lake	40	Luzerne	41-09-27	76-03-51	937	Nanticoke
DDB	505	Wanamie Dam	40	Luzerne	41-10-06	76-01-24	937	Nanticoke
DDB	513	Croops	40	Luzerne	41-12-32	76-05-38	937	Nanticoke
SRBC	966	Unnamed	40	Luzerne	41-14-08	76-05-02	937	Nanticoke
DDB	530	Pa Gas & Water Co Deep Holl&Kell Ca	40	Luzerne	41-15-30	75-47-33	839	Pittston
DDB	531	Deep Hollow	40	Luzerne	41-15-30	75-48-06	839	Pittston

Public Access	Source	Sig	Digitized?	Visited	Comments	Lake or Reservoir Name
No	CCD	Yes		No	No public access	Eagle Lake
No	PA G&W			No	No public access	Pa Gas & Water Co Hollister
No	PA G&W	Yes		No	Duplicate of #419	Brownell Res.*
No	SRBC	Yes	Yes	Y	No public access	Belmont Dam
No	PBB				No public access	Mud Lake
No	PBB				No public access	Grubb Lake
					D(t)<14 days	Unnamed
					D(t)<14 days	Elizabethtown Boro Conoy Cr Dm
					D(t)<14 days	Ephrata Mun Waterworks Cocalico Ck
No	CCD	No			No public access	Twin Pine Dam
No	GL	Yes	Yes		No public access	Muddy Run Dam
Yes	CCD	Yes			D(t)<14; dup. of #433	Pa Power & Light-Holtwood Dam *
No	CCD	No			No public access	Gabel Park Woods
					D(t)<14 days	High Realty Dam
					D(t)<14 days	Stauffer Run Dam
Yes	CCD	Yes			D(t)<14 days	Manheim Water Dept Rife Run-Dam
No	PBB			Yes		Conestoga Dam
No	CCD	Yes			No public access	New Holland Reservoir Dam
No		Yes			No public access	New Holland Boro Reservoir
Yes	CCD	Yes			D(t)<14; dup. of #438	Safe Harbor Hydroelectric Dam *
No		Yes			No public access	Frey Dairy Farms Dam
No	CCD	No			No public access	Zimmerman Dam
No	CCD	Yes			No public access	Martin Dam
				No	D(t)<14 days	Snader Pond Dam
				No	D(t)<14 days	Lake Strause
			Yes	No	D(t)<14 days	Stouffer Lake
				No	D(t)<14 days	Cornwall B Lebanon Co M A Upper Dam
				No	D(t)<14 days	Cornwall B Lebanon Co M A Lower Dam
No	PA G&W	Yes		No	No public access	Mill Creek
No	SRBC		Yes	Yes	Posted- no public access	Unnamed
No	SRBC			Yes	Posted private drive	Unnamed
No	CCD	Yes		No	No public access	Lake Louise Dam
No	SRBC	Yes	Yes	No	Road posted private driv	Unnamed (Lake Manjo?)
No	CCD	Yes		No	No public access	Lake Catalpa Dam
No	CCD			No	No public access	Perrins Marsh
No	CCD			No	No public access	Cummings Pond
No	CCD	Yes	Yes	No	Duplicate of #1099	Hazleton Wtr Auth-Mt Pleasant Resrv *
No	CCD	Yes	Yes	No	No public access	Grape Run Res.
No	CCD	Yes		No	Duplicate of #488	Hazleton Wtr Auth-Humboldt Resrv *
No	CCD	Yes		No	No public access	Beech Mountain Lake
No	CCD			No	No public access	Pa Gas & Water Co Pike Crk Headwrks
No	PA G&W	Yes		No	Duplicate of #536,#534	Pike Crk. Dam *
No	PA G&W			No	No public access	Pa Gas & Water Co Harvey Crk Headwk
No	CCD			No	No public access	Hazleton Wtr Auth-Harleigh Resrv
No	PA G&W			No	No public access	Pa Gas & Water Co Coal Creek #4
No	PA G&W			No	No pub acc, dup of #544	Pa Gas & Water Co Hillside Wtr Res *
No	PA G&W	Yes		No	No public access	Pa Gas & Water Co Huntsville Reserv
No	PA G&W	Yes		No	No public access	Huntsville Storage Dam
No	CCD			No	No public access	Kielar Lake
				No	D(t)<14 days	Wanamie Dam
No	CCD	Yes		No	No public access	Croops
No	SRBC			Yes	Posted no trespass	Unnamed
No	PA G&W	Yes	Yes	No	No public access	Pa Gas & Water Co Deep Holl&Kell Ca
No	PA G&W	Yes		No	No public access	Deep Hollow

Table A1. Lakes With No Public Access or Detention Time Less Than 14 Days (D(t) <14)—Continued

Source	Lake or Reservoir ID Number and Name		County ID Number and Name		Latitude	Longitude	Quad	USGS Quad
DDB	532	Pa Gas & Water Co Mill Crk Stor Res	40	Luzerne	41-15-39	75-45-06	839	Pittston
DDB	533	Pa Gas & Water Co New Mill Crk Inta	40	Luzerne	41-15-39	75-45-06	839	Pittston
DDB	538	Pa Gas & Water Co Aux Mill Crk Inta	40	Luzerne	41-15-55	75-47-02	839	Pittston
DDB	539	Pa Gas & Water Co Gardners Crk	40	Luzerne	41-16-11	75-45-58	839	Pittston
DDB	541	Gardner Creek Dam	40	Luzerne	41-16-12	75-45-58	839	Pittston
DDB	552	Pa Gas & Water Co Campbell Ledg Res	40	Luzerne	41-21-45	75-47-23	839	Pittston
SRBC	967	Unnamed	40	Luzerne	41-17-16	76-17-24	835	Red Rock
DDB	499	Mocanaqua Water Company Res	40	Luzerne	41-08-32	76-07-46	936	Shickshinny
DDB	502	Shickshinny Water Co-L Shick-High D	40	Luzerne	41-08-49	76-10-52	936	Shickshinny
DDB	504	Shickshinny Water Co-L Shick-Low D	40	Luzerne	41-09-04	76-09-43	936	Shickshinny
DDB	509	Lake Pinecrest Dam	40	Luzerne	41-11-00	76-14-42	936	Shickshinny
DDB	512	Shickshinny Lake	40	Luzerne	41-12-18	76-11-30	936	Shickshinny
DDB	514	Hidden Lake	40	Luzerne	41-12-55	76-12-03	936	Shickshinny
SRBC	969	North Lake	40	Luzerne	41-17-22	76-08-40	836	Sweet Valley
SRBC	971	Beech Lake	40	Luzerne	41-21-27	76-13-24	836	Sweet Valley
SRBC	972	Unnamed	40	Luzerne	41-06-00	76-02-06	1037	Sybertsville
SRBC	973	Unnamed	40	Luzerne	41-06-24	76-02-05	1037	Sybertsville
DHL	1101	Ray T. Mantz Dam	40	Luzerne	41-04-48	75-49-00		White Haven
DHL	1102	Olympus Lake Dam (Olympus Pond)	40	Luzerne	41-05-24	75-50-24		White Haven
DDB	507	Pa Gas & Water Co Crystal Lake *	40	Luzerne	41-10-11	75-50-33	939	Wilkes-Barre E
DHL	1142	Bear Creek Lake	40	Luzerne	41-10-45	75-45-22		Wilkes-Barre E
DDB	522	Pa Gas & Water Co Laurel Run #2 & Cana *	40	Luzerne	41-14-53	75-49-05	939	Wilkes-Barre E
DDB	497	Lake Blytheburn Dam	40	Luzerne	41-07-54	75-57-30	938	Wilkes-Barre W
DDB	500	Ice Pond Dam *	40	Luzerne	41-08-42	75-56-48	938	Wilkes-Barre W
DDB	510	Pa Gas & Water Co Pine Run #1	40	Luzerne	41-11-46	75-53-01	938	Wilkes-Barre W
DDB	511	Pine Run Dam No. 1	40	Luzerne	41-11-54	75-53-36	938	Wilkes-Barre W
DDB	516	Pa Gas & Water Co Coal Creek Dam	40	Luzerne	41-14-27	75-58-12	938	Wilkes-Barre W
DDB	519	Pa Gas & Water Co Coal Creek #2	40	Luzerne	41-14-33	75-58-20	938	Wilkes-Barre W
DDB	521	Pa Gas & Water Co Coal Creek #3	40	Luzerne	41-14-40	75-58-24	938	Wilkes-Barre W
DDB	557	Oval-Orile Water Assoc Reservoir	41	Lycoming	41-07-50	77-09-09	928	Linden
DDB	563	Dam B	41	Lycoming	41-10-48	77-13-36	928	Linden
DDB	561	White Deer Pond No.2	41	Lycoming	41-10-37	76-55-54	930	Montoursville S
DDB	562	White Deer Pond No.1	41	Lycoming	41-10-44	76-55-40	930	Montoursville S
DDB	572	Williamsport Mun Auth Hagermans Res	41	Lycoming	41-13-10	76-59-11	930	Montoursville S
DDB	571	Muncy State Corr Inst Res	41	Lycoming	41-12-22	76-50-15	931	Muncy
DDB	579	Paul Van-Horn Dam	41	Lycoming	41-20-11	76-41-35	832	Picture Rocks
SRBC	897	Highland Lake	41	Lycoming	41-21-07	76-41-46	832	Picture Rocks
SRBC	1077	Crystal Lake	41	Lycoming	41-22-50	76-42-02	832	Picture Rocks
DDB	583	Maggio Estate No.2	41	Lycoming	41-31-13	76-58-25	630	Ralston
DDB	578	Jersey Shore Water Co Larrys Crk Da	41	Lycoming	41-19-34	77-11-26	828	Salladasburg
DDB	577	Beaver Lake	41	Lycoming	41-17-42	76-35-24	833	Sonestown
DDB	560	John Youngman Res	41	Lycoming	41-09-12	77-04-48	929	Williamsport
DDB	559	Williamsport Mun Wa Auth Frank Heller Res	41	Lycoming	41-09-12	77-04-44	929	Williamsport
DDB	569	Williamsport Mun Auth Mosquito Res	41	Lycoming	41-12-11	77-02-49	929	Williamsport
DDB	587	Allensville Mun Auth Webbs Gap Res	44	Mifflin	40-32-42	77-49-51	1423	Allensville
DDB	589	Union Twp Mun Auth Rockville Res	44	Mifflin	40-36-36	77-46-19	1423	Allensville
DDB	584	Mt Union Mun Wtrwks Licking Cr Res	44	Mifflin	40-22-23	77-46-23	1623	Aughwick
DDB	590	Union Twp Mun Auth Campbell's H Res	44	Mifflin	40-37-48	77-44-02	1324	Barrville
DDB	588	Hawstone	44	Mifflin	40-34-54	77-31-48	1425	Lewistown
DDB	585	Dark Hollow	44	Mifflin	40-24-00	77-53-00	1522	Mount Union

Public Access	Source	Sig	Digitized?	Visited	Comments	Lake or Reservoir Name
No	PA G&W	Yes		No	No public access	Pa Gas & Water Co Mill Crk Stor Res
No	PA G&W			No	No public access	Pa Gas & Water Co New Mill Crk Inta
No	PA G&W			No	No public access	Pa Gas & Water Co Aux Mill Crk Inta
No	PA G&W	Yes		No	No public access	Pa Gas & Water Co Gardners Crk
No	PA G&W	Yes		No	No public access	Gardner Creek Dam
No	PA G&W	Yes		No	No public access	Pa Gas & Water Co Campbell Ledg Res
No	SRBC			Yes	No public access	Unnamed
				No	D(t)<14 days	Mocanaqua Water Company Reservoir
				No	D(t)<14 days	Shickshinny Water Co-L Shick-High D
				No	D(t)<14 days	Shickshinny Water Co-L Shick-Low D
No	CCD	Yes		No	No public access	Lake Pinecrest Dam
No	CCD	Yes		No	No public access	Shickshinny Lake
No	CCD	Yes		No	No public access	Hidden Lake
No	CCD			No	No public access	North Lake
No	CCD			No	No public access	Beech Lake
No	CCD			No	No public access	Unnamed
No	CCD			No	No public access	Unnamed
No	SRBC	Yes	Yes	Yes	No public access	Ray T. Mantz Dam
No	CCD	Yes	Yes	No	No public access	Olympus Lake Dam (Olympus Pond)
No	PA G&W	Yes		No	No public access	Pa Gas & Water Co Crystal Lake *
No	CCD			No	No public access	Bear Creek Lake
No	CCD	Yes	Yes	No	Dup. of #523, d(t)>14 !!!!!	Pa Gas & Water Co Laurel Run #2 & Cana *
No	CCD	Yes		No	No public access	Lake Blytheburn Dam
No	CCD	Yes	Yes	No	Duplicate of #1104, 501	Ice Pond Dam *
No	PA G&W			No	No public access	Pa Gas & Water Co Pine Run #1
No	PA G&W			No	D(t)<14 days	Pine Run Dam No. 1
No	PA G&W			No	No public access	Pa Gas & Water Co Coal Creek Dam
No	PA G&W			No	No public access	Pa Gas & Water Co Coal Creek #2
No	PA G&W			No	No public access	Pa Gas & Water Co Coal Creek #3
No	CCD			No	No public access	Oval-Orile Water Assoc Reservoir
No	CCD			No	No public access	Dam B
No	SRBC	Yes		Yes	No public access	White Deer Pond No.2
No	SRBC	Yes		Yes	No public access	White Deer Pond No.1
				No	D(t)<14 days	Williamsport Mun Auth Hagermans Res
				No	No public access	Muncy State Corr Inst Res
				No	D(t)<14 days	Paul Van-Horn Dam
No	SRBC			Yes	No public access	Highland Lake
No	SRBC			Yes	No public access	Crystal Lake
No	CCD	Yes		No	No public access	Maggio Estate No.2
				No	D(t)<14 days	Jersey Shore Water Co Larrys Crk Da
No	SRBC	Yes		Yes	No public access	Beaver Lake
No		Yes		No	No public access	John Youngman Res
No		Yes		No	No public access	Williamsport Mun Wa Auth Frank Heller Res
				No	D(t)<14 days	Williamsport Mun Auth Mosquito Res
No	CCD			No	No public access	Allensville Mun Auth Webbs Gap Res
No	CCD			No	No public access	Union Twp Mun Auth Rockville Res
No	CCD			No	No public access	Mt Union Mun Wtrwks Licking Cr Res
No	CCD			No	No public access	Union Twp Mun Auth Campbell's H Res
No	CCD			No	No public access	Hawstone
No	CCD			No	No public access	Dark Hollow

Table A1. Lakes With No Public Access or Detention Time Less Than 14 Days (D(t) <14)—Continued

Source	Lake or Reservoir ID Number and Name		County ID Number and Name		Latitude	Longitude	Quad	USGS Quad
DDB	586	Mt Union Mun Wtrwks Dark Hollow Res	44	Mifflin	40-24-07	77-53-13	1522	Mount Union
DDB	598	Storage Reservoir No. 1	49	Northumberland	40-47-24	76-24-42	1234	Mt Carmel
DDB	599	Storage Reservoir No. 2	49	Northumberland	40-47-54	76-24-42	1234	Mt Carmel
DDB	606	Bear Gap No.2 Dam	49	Northumberland	40-49-24	76-29-42	1234	Mt Carmel
DDB	608	Roaring Cr Wtr Co-Bear Gap 2	49	Northumberland	40-49-30	76-29-26	1234	Mt Carmel
DDB	609	Bear Gap No.6 Dam	49	Northumberland	40-50-00	76-25-12	1234	Mt Carmel
DDB	610	Roaring Cr Wtr Co-Reservoir 6	49	Northumberland	40-50-00	76-24-41	1234	Mt Carmel
DDB	601	Roaring Cr Wtr Co-Trout Run 4	49	Northumberland	40-48-41	76-32-42	1233	Shamokin
DDB	602	No.4 Dam	49	Northumberland	40-48-42	76-32-54	1233	Shamokin
DDB	603	Trout Run Dam #4	49	Northumberland	40-48-44	76-32-50	1233	Shamokin
DDB	604	Roaring Cr Wtr Co-Mountain Reserv 1	49	Northumberland	40-49-04	76-30-20	1233	Shamokin
DDB	605	Roaring Cr Wtr Co-Mountain Reserv 2	49	Northumberland	40-49-04	76-30-20	1233	Shamokin
DDB	607	Roaring Cr Wtr Co-Bear Gap 1	49	Northumberland	40-49-29	76-30-05	1233	Shamokin
DDB	611	Sunbury Mun Auth Reservoir #1	49	Northumberland	40-51-39	76-46-17	1231	Sunbury
DDB	612	Sunbury Mun Auth Sludge Lagoon #2	49	Northumberland	40-51-39	76-46-21	1231	Sunbury
DDB	613	Sunbury Mun Auth Reservoir #	49	Northumberland	40-51-40	76-46-22	1231	Sunbury
DDB	614	Sunbury Mun Auth Sludge Lagoon #1	49	Northumberland	40-51-40	76-48-15	1231	Sunbury
DDB	615	Sunbury Mun Auth Reservoir #3	49	Northumberland	40-51-47	76-46-28	1231	Sunbury
DDB	618	Pa American Water Co No Di Johnson	49	Northumberland	40-56-23	76-45-27	1131	Northumberland
DDB	624	Lake Kimberly	50	Union	40-20-35	77-25-41	1626	Andersonburg
DDB	623	Blain Water Co Reservoir *	50	Union	40-20-23	77-32-02	1625	Blain
DDB	625	Duncannon Mun Waterworks Reservoir	50	Union	40-22-37	77-02-59	1529	Duncannon
DDB	629	Lake Heron Dam	50	Union	40-36-47	76-58-25	1430	Millersburg
DDB	628	Millerstown Boro Water Reservoir	50	Union	40-33-31	77-09-26	1428	Millerstown
DDB	621	Negley	50	Union	40-04-00	77-08-58	1828	Mount Holly Springs
DDB	627	Newport Mun Water Auth Mitchell Gap	50	Union	40-30-29	77-05-25	1429	Reward
DDB	630	Pond No.1	53	Potter	41-37-55	77-48-17	523	Cherry Springs
DDB	631	Pond No.2	53	Potter	41-38-01	77-48-27	523	Cherry Springs
DDB	634	Lyman Run State Park	53	Potter	41-43-18	77-45-48	523	Cherry Springs
DDB	632	Galeton Boro Auth R Br Wetmore Res	53	Potter	41-42-58	77-42-54	524	Galeton
DDB	633	Galeton Boro Auth Wetmore Res	53	Potter	41-43-12	77-42-30	524	Galeton
DDB	636	North Fork (Pa-406)	53	Potter	41-59-48	77-39-18	324	Harrison Valley
DDB	659	Ashland Boro Water Dept Reservoir *	54	Schuykill	40-46-39	76-15-34	1235	Ashland
DDB	671	Shenandoah Mun W A Whiskey R&Dr #6 *	54	Schuykill	40-49-52	76-16-55	1235	Ashland
DDB	692	Mahanoy Dam No. 2	54	Schuykill	40-50-30	76-06-06	1237	Delano
DDB	696	Hazleton Wtr Auth-Delano Resrv	54	Schuykill	40-50-38	76-04-32	1237	Delano
DDB	664	Shenandoah Mun Water A Lost Cr #2 *	54	Schuykill	40-49-22	76-14-26	1236	Shenandoah
DDB	665	Shenandoah Mun Water A Lost Cr #3 *	54	Schuykill	40-49-29	76-14-19	1236	Shenandoah
DDB	667	Shenandoah Mun Water A Kehly Run #4	54	Schuykill	40-49-39	76-11-57	1236	Shenandoah
DDB	668	Shenandoah Mun Water A Kehly Run #5 *	54	Schuykill	40-49-45	76-11-59	1236	Shenandoah
DDB	672	Shenandoah Mun Water A Kehly Run #3	54	Schuykill	40-49-53	76-11-42	1236	Shenandoah
DDB	697	Blue Head Dam	54	Schuykill	40-52-12	76-05-18	1237	Delano
DDB	700	Mahanoy Twp Auth Blue Head Messer's	54	Schuykill	40-52-13	76-05-17	1237	Delano
DDB	656	Hess's Lower Pond	54	Schuykill	40-45-33	76-22-42	1234	Mt Carmel
DDB	657	Hess's Upper Pond	54	Schuykill	40-45-35	76-22-41	1234	Mt Carmel
DDB	644	Pine Grove Mun Wa Works Adams R	54	Schuykill	40-35-11	76-24-09	1434	Pine Grove
DDB	645	Black Creek Intake Dam	54	Schuykill	40-36-18	76-22-36	1434	Pine Grove
DDB	646	Pine Grove Mun Wa Works Black Creek	54	Schuykill	40-36-20	76-22-33	1434	Pine Grove
DDB	673	Kehly Run Dam No. 3	54	Schuykill	40-49-54	76-11-42	1236	Shenandoah
DDB	676	Mahanoy Twp Wa A Waste House Run #4	54	Schuykill	40-50-01	76-09-51	1236	Shenandoah
DDB	685	Mahanoy Twp Auth Cold Run Res #3	54	Schuykill	40-50-19	76-08-18	1236	Shenandoah
DDB	698	Brandonville Pumping Station	54	Schuykill	40-52-12	76-08-48	1236	Shenandoah

Public Access	Source	Sig	Digitized?	Visited	Comments	Lake or Reservoir Name
No	CCD			No	No public access	Mt Union Mun Wtrwks Dark Hollow Res
				No	D(t)<14 days	Storage Reservoir No. 1
				No	D(t)<14 days	Storage Reservoir No. 2
No	CCD	Yes		No	No public access	Bear Gap No.2 Dam
No	CCD	Yes		No	No public access	Roaring Cr Wtr Co-Bear Gap 2
No	CCD	Yes		No	No public access	Bear Gap No.6 Dam
No	CCD			No	No public access	Roaring Cr Wtr Co-Reservoir 6
No	CCD	Yes		No	No public access	Roaring Cr Wtr Co-Trout Run 4
No	CCD	Yes		No	No public access	No.4 Dam
No	CCD	Yes		No	No public access	Trout Run Dam #4
No	CCD			No	No public access	Roaring Cr Wtr Co-Mountain Reserv 1
No	CCD			No	No public access	Roaring Cr Wtr Co-Mountain Reserv 2
No	CCD			No	No public access	Roaring Cr Wtr Co-Bear Gap 1
No	CCD	Yes		No	No public access	Sunbury Mun Auth Reservoir #1
No	CCD			No	No public access	Sunbury Mun Auth Sludge Lagoon #2
No	CCD			No	No public access	Sunbury Mun Auth Reservoir #2
No	CCD			No	No public access	Sunbury Mun Auth Sludge Lagoon #1
No	CCD			No	No public access	Sunbury Mun Auth Reservoir #3
No	SRBC			Yes	Posted no trespass	Pa American Water Co No Di Johnson
No	CCD	Yes		No	No public access	Lake Kimberly
No	CCD			No	No pub acc, dup of #622	Blain Water Co Reservoir *
No	CCD			No	No public access	Duncannon Mun Waterworks Reservoir
No	CCD	Yes		No	No public access	Lake Heron Dam
No	CCD			No	No public access	Millerstown Boro Water Reservoir
No	CCD	Yes		No	No public access	Negley
No	CCD			No	No public access	Newport Mun Water Auth Mitchell Gap
				No	D(t)<14 days	Pond No.1
				No	D(t)<14 days	Pond No.2
Yes	CCD	No		No	D(t)<14 days	Lyman Run State Park
No	CCD			No	No public access	Galeton Boro Auth R Br Wetmore Res
No	CCD			No	No public access	Galeton Boro Auth Wetmore Res
No	CCD			No	No public access	North Fork (Pa-406)
No		Yes			Duplicate of #661	Ashland Boro Water Dept Reservoir *
No	SRBC	Yes		Yes	Duplicate of #670	Shenandoah Mun W A Whiskey R&Dr #6 *
No		Yes		Yes	Breeched	Mahanoy Dam No. 2
No					a.k.a. Reservior No. 1	Hazleton Wtr Auth-Delano Resrv
No		Yes			Duplicate of #663	Shenandoah Mun Water A Lost Cr #2 *
No		Yes			Duplicate of #666	Shenandoah Mun Water A Lost Cr #3 *
No					No public access	Shenandoah Mun Water A Kehly Run #4
No		Yes			Duplicate of #687	Shenandoah Mun Water A Kehly Run #5 *
No		Yes			No public access	Shenandoah Mun Water A Kehly Run #3
				No	D(t)<14 days	Blue Head Dam
				No	D(t)<14 days	Mahanoy Twp Auth Blue Head Messer's
				No	D(t)<14 days	Hess's Lower Pond
				No	D(t)<14 days	Hess's Upper Pond
				No	D(t)<14 days	Pine Grove Mun Wa Works Adams R
				No	D(t)<14 days	Black Creek Intake Dam
				No	D(t)<14 days	Pine Grove Mun Wa Works Black Creek
				No	D(t)<14 days	Kehly Run Dam No. 3
				No	D(t)<14 days	Mahanoy Twp Wa A Waste House Run #4
				No	D(t)<14 days	Mahanoy Twp Auth Cold Run Res #3
				No	D(t)<14 days	Brandonville Pumping Station

Table A1. Lakes With No Public Access or Detention Time Less Than 14 Days (D(t) <14)—Continued

Source	Lake or Reservoir ID Number and Name	County ID Number and Name	Latitude	Longitude	Quad	USGS Quad
DDB	679 Mahanoy Twp Wa A Waste House Run #1 *	54 Schuykill	40-50-02	76-09-51	1236	Shenandoah
DDB	686 Mahanoy Twp Auth Cold Run Res #2 *	54 Schuykill	40-50-16	76-08-33	1236	Shenandoah
DDB	680 Kehley Run Dam No. 6	54 Schuykill	40-50-22	76-12-00	1236	Shenandoah
DDB	684 Mahanoy Twp Auth Cold Run Res #1	54 Schuykill	40-50-22	76-08-18	1236	Shenandoah
DDB	689 Mahanoy Twp Auth Pole Run Res #4	54 Schuykill	40-50-28	76-07-35	1236	Shenandoah
DDB	693 Shenandoah Mun W A Whiskey R&Dr #5 *	54 Schuykill	40-50-33	76-14-51	1236	Shenandoah
DDB	694 Shenandoah Mun Water A Kehly Run #9	54 Schuykill	40-50-35	76-11-48	1236	Shenandoah
DDB	695 Mahanoy Twp Wa A Waste House Run #3 *	54 Schuykill	40-50-36	76-09-42	1236	Shenandoah
DDB	703 Honeybrook Water Co Reservoir #8	54 Schuykill	40-53-55	76-01-17	1137	Conyngham
DDB	704 Honeybrook Water Co Honeybrook	54 Schuykill	40-54-06	76-00-03	1137	Conyngham
DDB	705 Lake Susquehanna	54 Schuykill	40-55-42	76-07-24	1137	Conyngham
DDB	637 Hawk Mountain	54 Schuykill	40-32-33	76-14-13	1436	Friedensburg
DDB	706 Lake Choctaw	54 Schuykill	40-55-42	76-07-54	1136	Nuremberg
DDB	638 Lebanon Mun-Highbridge Reservoir *	54 Schuykill	40-32-41	76-29-55	1434	Pine Grove
DDB	660 Pa Am W C Frackville Clearwell Cntr	54 Schuykill	40-46-40	76-13-57	1236	Shenandoah
DDB	650 Tremont Gas & Water Co Big Tremont	54 Schuykill	*40-37-57*	*76-23-57*	1334	Tremont
DDB	710 Beaver Springs Water Supply(Pa-638)	55 Snyder	40-44-22	77-10-46	1328	Beaver Springs
DDB	709 Spring Twp Mun Auth Reservoir	55 Snyder	40-44-07	77-10-59	1328	Beaver Springs
DDB	712 Beavertown Mun Wtr Sys Beavertown I *	55 Snyder	40-44-57	77-09-38	1328	Beaver Springs
SRBC	975 Mill Run Lake - Members Only Club	55 Snyder	40-45-12	77-12-50	1228	Beavertown
DDB	713 Faylor Lake Dam (Pa-636)	55 Snyder	40-45-47	77-12-51	1228	Beavertown
DDB	715 Mussers Dam (Middle Ck Lake) *	55 Snyder	40-46-00	76-52-24	1231	Sunbury
DDB	722 Berlin Mun Water System Reservoir 4	56 Somerset	39-56-02	78-52-06	1915	New Baltimore
DDB	733 Dushore Boro Waterworks Reservoir	57 Sullivan	41-30-32	76-22-41	634	Dushore
SRBC	1078 Beaver Pond	57 Sullivan	41-32-59	76-27-51	634	Dushore
CCD	1159 Across From Kravitz	57 Sullivan				Dushore
CCD	1151 Les Miller Pond #1	57 Sullivan				Dushore
CCD	1152 Les Miller Pond #2	57 Sullivan				Dushore
DDB	727 Eagles Mere Water Co Reservoir	57 Sullivan	41-24-41	76-34-33	733	Eagles Mere
SRBC	976 Celestial Lake	57 Sullivan	41-25-17	76-31-22	733	Eagles Mere
SRBC	977 Unnamed	57 Sullivan	41-32-59	76-47-45	631	Grover
DDB	729 Lake Mokoma	57 Sullivan	41-25-24	76-29-06	734	Laporte
SRBC	978 Lake Akela	57 Sullivan	41-28-48	76-27-48	734	Laporte
CCD	1163 Sandys Pond	57 Sullivan				Laporte
CCD	1164 John Minnier	57 Sullivan				Laporte
CCD	1165 Lazy Dozen	57 Sullivan				Laporte
CCD	1148 Painter Den Pond	57 Sullivan	41-22-48	76-22-26		Lopez
SRBC	981 Unnamed ("2061" On Quad Near L. John)*	57 Sullivan	41-25-38	76-16-57	735	Lopez
CCD	1167 Rose Ann Lukachik	57 Sullivan	41-26-42	76-18-54		Lopez
CCD	1166 Sergis White	57 Sullivan	41-27-07	76-19-00		Lopez
SRBC	982 Unnamed (on Long Run)	57 Sullivan	41-28-12	76-17-55	735	Lopez
CCD	1157 Half Moon Swamp	57 Sullivan	41-28-45	76-19-12		Lopez
DDB	732 Foster Pond Dam (a.k.a. Flag Marsh)	57 Sullivan	41-28-53	76-17-29	735	Lopez
SRBC	983 Connell Pond	57 Sullivan	41-29-03	76-20-45	735	Lopez
CCD	1153 Applegate Pond	57 Sullivan				Lopez
CCD	1160 Schaad's Pond	57 Sullivan				Lopez
CCD	1161 White Ash Pond	57 Sullivan				Lopez
CCD	1162 Brows Pond	57 Sullivan				Lopez
CCD	1168 Leo Elchak	57 Sullivan				Lopez
DDB	735 Maple Lake	57 Sullivan	41-31-06	76-36-12	633	Overton

Public Access	Source	Sig	Digitized?	Visited	Comments	Lake or Reservoir Name
No		Yes			Duplicate of #691	Mahanoy Twp Wa A Waste House Run #1 *
No		Yes			Duplicate of #683, 682	Mahanoy Twp Auth Cold Run Res #2 *
No		Yes			No public access	Kehley Run Dam No. 6
No		Yes			No public access	Mahanoy Twp Auth Cold Run Res #1
No		Yes			No public access	Mahanoy Twp Auth Pole Run Res #4
No	SRBC	Yes		Yes	Duplicate of #681, 690	Shenandoah Mun W A Whiskey R&Dr #5 *
No					a.k.a. Fetter Pond	Shenandoah Mun Water A Kehly Run #9
No		Yes			Duplicate of #678	Mahanoy Twp Wa A Waste House Run #3 *
No	SRBC			Yes		Honeybrook Water Co Reservoir #8
No	SRBC			Yes		Honeybrook Water Co Honeybrook
No	SRBC	Yes		Yes	In Luzerne County	Lake Susquehanna
No	SRBC	Yes		Yes		Hawk Mountain
No	SRBC	Yes		Yes	Guard at gate	Lake Choctaw
No	CCD	Yes			Duplicate of #639	Lebanon Mun-Highbridge Reservoir *
No	SRBC			Yes		Pa Am W C Frackville Clearwell Cntr
No	SRBC			Yes	No access to reservoir	Tremont Gas & Water Co Big Tremont
No	SRBC	Yes		Yes		Beaver Springs Water Supply(Pa-638)
					D(t)<14 days	Spring Twp Mun Auth Reservoir
					D(t)<14 days	Beavertown Mun Wtr Sys Beavertown I *
No	CCD				No public access	Mill Run Lake -Members Only Club
Yes	CCD	No			D(t)<14 days	Faylor Lake Dam (Pa-636)
		No			Duplicate of #716, breached 1993	Mussers Dam (Middle Ck Lake) *
No	SRBC			No	No public access from Boro Secretary	Berlin Mun Water System Reservoir 4
				No	D(t)<14 days	Dushore Boro Waterworks Reservoir
No	CCD			No	No public access	Beaver Pond
No				No	No public access	Across From Kravitz
No	CCD			No	No public access	Les Miller Pond #1
No	CCD			No	No public access	Les Miller Pond #2
No		Yes		No	No public access	Eagles Mere Water Co Reservoir
No	CCD			No	No public access	Celestial Lake
No				Yes	No public access	Unnamed
No	CCD	Yes		No	No public access	Lake Mokoma
No	PBB			No	No public access	Lake Akela
No	CCD			No	No public access	Sandys Pond
No	CCD			No	No public access	John Minnier
No	CCD			No	No public access	Lazy Dozen
No	PGC			No	No public access	Painter Den Pond
No				Yes	Duplicate of #1149	Unnamed ("2061" On Quad Near L. John)*
No	CCD			No	No public access	Rose Ann Lukachik
No	CCD			No	No public access	Sergis White
No				No	No public access	Unnamed (on Long Run)
No	CCD			No	No public access	Half Moon Swamp
No	CCD	Yes		No	No public access	Foster Pond Dam (a.k.a. Flag Marsh)
No	CCD			No	No public access	Connell Pond
No	CCD			No	No public access	Applegate Pond
No	CCD			No	No public access	Schaad's Pond
No	CCD			No	No public access	White Ash Pond
No	CCD			No	No public access	Brows Pond
No	CCD			No	No public access	Leo Elchak
No	CCD	Yes		No	No public access	Maple Lake

Table A1. Lakes With No Public Access or Detention Time Less Than 14 Days (D(t) <14)—Continued

Source	Lake or Reservoir ID Number and Name		County ID Number and Name		Latitude	Longitude	Quad	USGS Quad
DDB	736	Roscoe Burgess	57	Sullivan	41-34-12	76-37-06	633	Overton
SRBC	985	Deer Lake	57	Sullivan	41-21-56	76-39-36	832	Picture Rocks
SRBC	986	Ganoga Lake	57	Sullivan	41-21-03	76-15-53	835	Red Rock
CCD	1146	Elk Lake (Scout Camp)	57	Sullivan	41-33-54	76-40-05		Shunk
DDB	746	Ross Dam	58	Susquehanna	41-44-18	75-33-42	541	Clifford
DDB	738	Pa Gas & Water Co Forest City Pump	58	Susquehanna	41-39-30	75-27-48	542	Forest City
DDB	777	Dubois Creek Dam	58	Susquehanna	41-56-24	75-46-12	339	Franklin Forks
DDB	750	Pa-467	58	Susquehanna	41-45-54	75-44-48	440	Harford
DDB	767	Purdy (Stump Pond)	58	Susquehanna	41-51-42	75-40-00	440	Harford
DDB	748	Pa-468	58	Susquehanna	41-45-18	75-48-30	439	Montrose East
DDB	769	Griffis Dam	58	Susquehanna	41-52-08	75-58-50	438	Montrose West
DHL	1107	Canawachta (a.k.a. Comfort Lake) *	58	Susquehanna	41-55-12	75-32-42		Susquehanna
DDB	778	Oakland Dam	58	Susquehanna	41-56-36	75-37-00	341	Susquehanna
DDB	753	Marcho Dam	58	Susquehanna	41-47-28	75-36-31	441	Thompson
SRBC	989	Carlin Pond	58	Susquehanna	41-40-46	76-03-30	537	Auburn Center
SRBC	987	Lott Pond	58	Susquehanna	41-40-52	76-02-15	537	Auburn Center
SRBC	990	Unnamed	58	Susquehanna	41-41-24	76-03-31	537	Auburn Center
SRBC	991	White Pond (a.k.a. Cresent Lake)	58	Susquehanna	41-43-00	76-02-33	537	Auburn Center
DHL	1119	Hartley Lake (a.k.a. Mud Pond)	58	Susquehanna	41-42-04	75-37-04		Clifford
SRBC	993	Unnamed	58	Susquehanna	41-42-40	75-34-57	541	Clifford
SRBC	996	Unnamed (Elk Meadows Lake ?)	58	Susquehanna	41-43-05	75-33-15	541	Clifford
SRBC	994	Unnamed	58	Susquehanna	41-43-18	75-34-45	541	Clifford
DHL	1110	Cottrell Lake	58	Susquehanna	41-41-48	75-30-12	541	Clifford
SRBC	995	Lake Idlewild	58	Susquehanna	41-42-10	75-36-15	541	Clifford
DDB	771	Stone Lake	58	Susquehanna	41-52-48	76-02-06	337	Friendsville
DDB	781	Lake Romasa (a.k.a. Minkler Lake)	58	Susquehanna	41-57-36	76-05-54	337	Friendsville
SRBC	1008	Unnamed	58	Susquehanna	41-52-37	75-40-35	340	Great Bend
DHL	1111	Dranchak	58	Susquehanna	41-54-24	75-40-42		Great Bend
SRBC	1007	Brushville Lake	58	Susquehanna	41-54-55	75-37-48	340	Great Bend
DDB	751	Lindy Lake	58	Susquehanna	41-45-58	75-42-57	440	Harford
SRBC	1017	Cord Pond	58	Susquehanna	41-38-34	75-50-45	539	Hop Bottom
SRBC	1018	Clark Pond	58	Susquehanna	41-41-00	75-45-10	539	Hop Bottom
SRBC	1020	Schooley Pond	58	Susquehanna	41-41-02	75-51-36	539	Hop Bottom
DDB	770	Forest Lake	58	Susquehanna	41-52-48	75-57-42	338	Laurel Lake
DHL	1115	Laurel Lake	58	Susquehanna	41-56-48	75-55-00	338	Laurel Lake
DDB	780	Longford Lake	58	Susquehanna	41-57-18	75-58-00	338	Laurel Lake
SRBC	1026	Tripp Lake	58	Susquehanna	41-57-37	75-52-30	338	Laurel Lake
DDB	782	Lake Sophia Dam	58	Susquehanna	41-58-18	75-58-38	338	Laurel Lake
SRBC	1027	Unnamed	58	Susquehanna	41-58-24	75-52-56	338	Laurel Lake
SRBC	1028	Meeker Lake	58	Susquehanna	41-59-42	76-56-38	338	Laurel Lake
SRBC	1029	Rigsby Pond	58	Susquehanna	41-49-27	76-04-29	437	Lawton
SRBC	1030	Hartley Pond	58	Susquehanna	41-39-22	75-42-37	540	Lenoxville
SRBC	1031	Jeffers Pond	58	Susquehanna	41-41-22	75-44-00	540	Lenoxville
SRBC	1032	Unnamed (a.k.a. Irion Lk)	58	Susquehanna	41-42-20	75-44-02	540	Lenoxville
SRBC	1033	Round Pond	58	Susquehanna	41-42-43	75-38-16	540	Lenoxville
SRBC	1034	Loomis Lake	58	Susquehanna	41-43-04	75-44-24	540	Lenoxville
DDB	743	Acre Pond Dam	58	Susquehanna	41-43-12	75-41-54	540	Lenoxville
SRBC	1037	Jones Lake	58	Susquehanna	41-45-54	75-47-13	439	Montrose East
SRBC	1039	Beaver Meadow Pond	58	Susquehanna	41-47-27	75-45-11	439	Montrose East
SRBC	1040	Lower Lake	58	Susquehanna	41-48-11	75-45-20	439	Montrose East
DHL	1116	Middle Lake	58	Susquehanna	41-48-52	75-45-30		Montrose East
SRBC	1042	Upper Lake	58	Susquehanna	41-49-19	75-45-22	439	Montrose East
DDB	758	Hart Dam	58	Susquehanna	41-49-25	75-52-23	439	Montrose East
DDB	759	Loomis Lake Dam (a.k.a. Lake Chrisann)	58	Susquehanna	41-50-12	75-48-00	439	Montrose East
DHL	1118	Warriner Dam (Pond)	58	Susquehanna	41-51-06	75-50-48		Montrose East
SRBC	1045	Elbow Pond	58	Susquehanna	41-52-26	75-47-18	439	Montrose East
DDB	737	Lake Walter	58	Susquehanna	41-39-24	75-56-12	538	Springville
DDB	740	Pa-105, Thomas Pond	58	Susquehanna	41-42-06	75-55-28	538	Springville

Public Access	Source	Sig	Digitized?	Visited	Comments	Lake or Reservoir Name
No	CCD	Yes		No	No public access	Roscoe Burgess
No	CCD			No	No public access	Deer Lake
No	CCD			No	No public access	Ganoga Lake
No	CCD			No	No public access	Elk Lake (Scout Camp)
				No	D(t)<14 days	Ross Dam
No	PA G&W			No	D(t)<14 days	Pa Gas & Water Co Forest City Pump
				No	D(t)<14 days	Dubois Creek Dam
				No	D(t)<14 days	Pa-467
Yes				Yes	D(t)<14 days	Purdy (Stump Pond)
				No	D(t)<14 days	PA-468
				No	D(t)<14 days	Griffis Dam
No	DHL	Yes	Yes	No	Duplicate of #775	Canawachta (a.k.a. Comfort Lake) *
				No	D(t)<14 days	Oakland Dam
				No	D(t)<14 days	Marcho Dam
No	SRBC			Yes	Area posted	Carlin Pond
No	SRBC			Yes	Area posted	Lott Pond
No	SRBC			Yes	Area posted	Unnamed
						White Pond (a.k.a. Cresent Lake)
No	SRBC	Yes	Yes	Yes	Area posted	Hartley Lake (a.k.a. Mud Pond)
No	SRBC			Yes		Unnamed
No	SRBC			Yes		Unnamed (Elk Meadows Lake ?)
No	SRBC			Yes	Rd gated, area posted	Unnamed
No	SRBC	Yes	Yes			Cottrell Lake
No	SRBC					Lake Idlewild
No	SRBC	Yes		Yes		Stone Lake
No	SRBC	Yes		Yes		Lake Romasa (a.k.a. Minkler Lake)
No	SRBC			Yes	Posted no trespass	Unnamed
No	SRBC	Yes	Yes	Yes	Area posted	Dranchak
No	SRBC					Brushville Lake
No	SRBC	Yes		Yes	Built 1985	Lindy Lake
No	SRBC			Yes	Road gated	Cord Pond
No	SRBC			Yes	Area posted	Clark Pond
No	SRBC			Yes	Association members	Schooley Pond
No	SRBC			Yes	Private roads near lake	Forest Lake
No	SRBC	Yes	Yes	Yes	Private, members only	Laurel Lake
No	SRBC	Yes		Yes	Rd gated, area posted	Longford Lake
No	SRBC			Yes	Rds gated, area posted	Tripp Lake
No	SRBC	Yes				Lake Sophia Dam
No	SRBC			Yes	Area posted	Unnamed
No	SRBC			Yes	Area posted	Meeker Lake
No	SRBC			Yes		Rigsby Pond
No	SRBC			Yes	Posted " keep out"	Hartley Pond
No	SRBC			Yes		Jeffers Pond
No	SRBC			Yes		Unnamed (a.k.a. Irion Lk)
No	SRBC			Yes	Posted no trespass	Round Pond
No	SRBC			Yes	Posted no trespass	Loomis Lake
No	SRBC	Yes				Acre Pond Dam
No	SRBC			Yes	Rds gated, land posted	Jones Lake
No	SRBC			Yes	Very shallow pond	Beaver Meadow Pond
No	SRBC			Yes	Lake posted	Lower Lake
No	SRBC	Yes	Yes	Yes	Rd gated, area posted	Middle Lake
No	SRBC			Yes	Private lake community	Upper Lake
No	SRBC	Yes		Yes	Private access road	Hart Dam
No	SRBC	Yes		Yes	Private lake	Loomis Lake Dam (a.k.a. Lake Chrisann)
No	SRBC	Yes	Yes			Warriner Dam (Pond)
No	SRBC					Elbow Pond
No	SRBC	Yes		Yes	Private-landowners assoc	Lake Walter
No	SRBC	Yes		Yes		Pa-105, Thomas Pond

Table A1. Lakes With No Public Access or Detention Time Less Than 14 Days (D(t) <14)—Continued

Source	Lake or Reservoir ID Number and Name		County ID Number and Name		Latitude	Longitude	Quad	USGS Quad
SRBC	1050	Broadhead Pond	58	Susquehanna	41-43-47	75-56-50	538	Springville
SRBC	1051	Lake Crystella	58	Susquehanna	41-44-22	75-56-58	538	Springville
SRBC	1056	Unnamed	58	Susquehanna	41-58-06	75-32-28	341	Susquehanna
SRBC	1059	Willis Lake	58	Susquehanna	41-47-08	75-34-07	441	Thompson
DDB	755	Hathaway Pond	58	Susquehanna	41-48-06	75-31-00	441	Thompson
SRBC	1061	Ball Lake	58	Susquehanna	41-48-17	75-30-38	441	Thompson
SRBC	1060	Stearns Lake	58	Susquehanna	41-48-39	75-35-51	441	Thompson
DDB	757	Romobe Lake	58	Susquehanna	41-48-42	75-30-48	441	Thompson
SRBC	1062	Griffith Pond	58	Susquehanna	41-50-53	75-35-13	441	Thompson
DDB	768	Reddon-Hall	58	Susquehanna	41-51-57	75-35-06	441	Thompson
SRBC	1063	Butler Lake	58	Susquehanna	41-52-03	75-36-51	441	Thompson
SRBC	1021	Lord Pond	58	Susquehanna	41-42-05	75-49-12	539	Hop Bottom
SRBC	1004	Carmault Lake	58	Susquehanna	41-55-50	76-06-28	337	Friendsville
SRBC	1009	East Lake	58	Susquehanna	41-53-11	75-40-19	340	Great Bend
DDB	772	Fuller's Lake	58	Susquehanna	41-53-17	*75-37-50*	340	Great Bend
DDB	765	Page Lake	58	Susquehanna	41-51-24	75-39-30	440	Harford
FBC	754	Tingley Lk	58	Susquehanna	41-47-54	75-43-11		Harford
DHL	1112	Tyler Lake	58	Susquehanna	41-46-48	75-42-30		Harford
DDB	774	Lake Timberline Dam	58	Susquehanna	41-55-00	75-58-34	338	Laurel Lake
DHL	1114	Lowe Lake	58	Susquehanna	41-44-50	*75-30-58*		Clifford
DDB	742	Lewis Lake	58	Susquehanna	41-43-00	75-29-54	542	Forest City
DHL	1117	Oteyokwa Lake Dam	58	Susquehanna	41-53-48	75-46-00	339	Franklin Forks
DDB	779	Bel-Aire Lake	58	Susquehanna	41-56-57	75-51-56	339	Franklin Forks
DDB	784	Pa Am W C Northeast Hallstead Mingo	58	Susquehanna	41-58-21	75-47-26	339	Franklin Forks
SRBC	1002	Choconut Lake	58	Susquehanna	41-55-38	76-01-45	337	Friendsville
DHL	1108	Stanley Lake	58	Susquehanna	41-56-42	76-02-24	337	Friendsville
SRBC	1014	Hunt Lake	58	Susquehanna	41-49-37	75-43-11	440	Harford
SRBC	1015	Gillespies Pond	58	Susquehanna	41-50-42	75-43-34	440	Harford
SRBC	1023	Cranberry Lake	58	Susquehanna	41-55-53	75-56-12	338	Laurel Lake
DHL	1113	Silver Lake	58	Susquehanna	41-55-54	75-57-00	338	Laurel Lake
SRBC	1036	Ely Lake	58	Susquehanna	41-45-36	75-50-17	439	Montrose East
SRBC	1038	North Pond	58	Susquehanna	41-46-30	75-50-10	439	Montrose East
SRBC	1046	Heart Lake	58	Susquehanna	41-50-47	75-47-34	439	Montrose East
DDB	747	Big Elk Lake	58	Susquehanna	41-45-12	75-57-18	438	Montrose West
SRBC	1047	Little Elk Lake	58	Susquehanna	41-45-20	75-56-40	438	Montrose West
DDB	749	Indian Lake Dam	58	Susquehanna	41-45-31	75-55-33	438	Montrose West
DHL	1106	Foxton Lake	58	Susquehanna	41-53-18	75-36-00	341	Susquehanna
SRBC	1054	Churchill Lake	58	Susquehanna	41-54-50	75-33-03	341	Susquehanna
SRBC	1058	Fiddle Lake	58	Susquehanna	41-46-52	75-31-55	441	Thompson
SRBC	1013	Blanding Lake	58	Susquehanna	41-47-48	75-40-33	440	Harford
DDB	799	Kelsey Creek (Pa-600)	59	Tioga	41-44-18	77-18-42	527	Antrim
DDB	789	Blossburg Water Co Taylor Reservoir	59	Tioga	41-38-41	77-02-42	529	Blossburg
DDB	790	Blossburg Water Co Bellman Res	59	Tioga	41-38-54	77-05-45	529	Blossburg
DDB	791	Dam No.1 *	59	Tioga	41-40-24	77-04-11	529	Blossburg
DDB	793	Hamilton Twp Mun Auth Reservoir D#3	59	Tioga	41-41-22	77-00-46	529	Blossburg
DDB	794	Morris Run Mine Dam No. 3	59	Tioga	41-41-24	77-00-42	529	Blossburg
SRBC	1064	Tauscher Pond	59	Tioga	41-48-38	77-11-18	428	Crooked Creek
DDB	806	Mansfield-Webster Dam *	59	Tioga	41-49-21	77-09-11	428	Crooked Creek
DDB	807	Mansfield Mun Wtr Auth-Taylor Resv	59	Tioga	41-50-20	77-07-42	428	Crooked Creek
DDB	804	Mansfield State College Reservoir	59	Tioga	41-48-38	77-04-09	429	Mansfield
DDB	787	Clemens Dam	59	Tioga	41-32-46	77-14-19	628	Nauvoo
SRBC	1065	Unnamed (Sugar Branch Lake)	59	Tioga	41-49-35	76-55-14	430	Roseville
DDB	808	Griffin Dam (Pa-455)	59	Tioga	41-51-00	77-32-00	425	Sabinsville
DDB	817	Laurelton Center 4 Reservoirs	60	Union	40-54-52	77-13-09	1128	Hartleton
DDB	818	Stony Run Dam	60	Union	40-55-12	77-13-30	1128	Hartleton
DDB	819	Laurelton Center Stoney Run Dam	60	Union	40-55-15	77-13-27	1128	Hartleton
DDB	820	Boro of Mifflinburg Mifflinburg Res	60	Union	40-57-32	77-07-52	1128	Hartleton

Public Access	Source	Sig	Digitized?	Visited	Comments	Lake or Reservoir Name
No	SRBC			Yes		Broadhead Pond
No	SRBC			Yes		Lake Crystella
No	SRBC			Yes	Lake drained- posted	Unnamed
No	SRBC			Yes		Willis Lake
No	SRBC	Yes		Yes	Posted no trespass	Hathaway Pond
No	SRBC			Yes	Posted no trespass	Ball Lake
No	SRBC			Yes	Access rd private	Stearns Lake
No	SRBC	Yes		Yes	Posted no trespass	Romobe Lake
No	SRBC			Yes	Posted no trespass	Griffith Pond
No	SRBC	Yes		Yes	Posted no trespass	Reddon-Hall
No	SRBC			Yes	Posted no trespass	Butler Lake
No	SRBC					Lord Pond
No	SRBC					Carmault Lake
No	SRBC					East Lake
No	SRBC	Yes				Fuller's Lake
No	SRBC	Yes				Page Lake
No	SRBC					Tingley Lk
No	SRBC	Yes	Yes			Tyler Lake
No	SRBC	Yes				Lake Timberline Dam
No		Yes	Yes			Lowe Lake
No		Yes				Lewis Lake
No		Yes	Yes			Oteyokwa Lake Dam
No		Yes				Bel-Aire Lake
No						Pa Am W C Northeast Hallstead Mingo
No						Choconut Lake
No		Yes	Yes			Stanley Lake
No						Hunt Lake
No						Gillespies Pond
No						Cranberry Lake
No		Yes	Yes			Silver Lake
No						Ely Lake
No						North Pond
No						Heart Lake
No		Yes				Big Elk Lake
No						Little Elk Lake
No		Yes				Indian Lake Dam
No		Yes	Yes			Foxton Lake
No						Churchill Lake
No						Fiddle Lake
						Blanding Lake
				No	D(t)<14 days	Kelsey Creek (Pa-600)
				No	D(t)<14 days	Blossburg Water Co Taylor Reservoir
				No	D(t)<14 days	Blossburg Water Co Bellman Res
				No	Duplicate of #792	Dam No.1 *
No		Yes		Yes		Hamilton Twp Mun Auth Reservoir D #3
No				Yes	D(t)<14 days	Morris Run Mine Dam No. 3
No	CCD					Tauscher Pond
				No	Duplicate of #805	Mansfield-Webster Dam *
				No	D(t)<14 days	Mansfield Mun Wtr Auth-Taylor Resv
				No	D(t)<14 days	Mansfield State College Reservoir
				No	D(t)<14 days	Clemens Dam
No				Yes		Unnamed (Sugar Branch Lake)
				No	D(t)<14 days	Griffin Dam (Pa-455)
No	CCD			No	No public access	Laurelton Center 4 Reservoirs
No	CCD			No	No public access	Stony Run Dam
No	CCD	Yes		No	No public access	Laurelton Center Stoney Run Dam
No	CCD			No	No public access	Boro of Mifflinburg Mifflinburg Res

Table A1. Lakes With No Public Access or Detention Time Less Than 14 Days (D(t) <14)—Continued

Source	Lake or Reservoir ID Number and Name		County ID Number and Name		Latitude	Longitude	Quad	USGS Quad
DDB	816	Bailey Dam	60	Union	40-54-41	76-57-45	1130	Lewisburg
DDB	821	Clemens/Harris Partnership Dam	60	Union	40-58-48	76-53-42	1130	Lewisburg
DDB	823	Spruce Reservoir*	60	Union	41-01-48	77-00-06	1029	Williamsport
DDB	826	Pa Gas & Water Co Brace Brook	64	Wayne	41-40-36	75-27-12	542	Forest City
DDB	828	Orson Pond *	64	Wayne	41-48-48	75-26-48	442	Orson
PBB	1067	Independent Lake	64	Wayne	41-49-34	75-26-33	442	Orson
PBB	1068	Bone Pond	64	Wayne	41-49-53	75-25-41	442	Orson
PBB	1070	Tamarack Swamp Pond	64	Wayne	41-50-45	75-24-45	442	Orson
PBB	1069	Spruce Lake	64	Wayne	41-50-52	75-25-20	442	Orson
DHL	1120	Wrighter Lake Dam	64	Wayne	41-50-42	75-28-24	442	Orson
SRBC	1071	Coxton Lake	64	Wayne	41-51-30	76-26-22	442	Orson
DDB	829	Beaver Pond Dam	64	Wayne	41-53-18	75-25-06	342	Starrucca
SRBC	1072	Unnamed (elevation 1794 on quad)	64	Wayne	41-54-03	75-24-03	342	Starrucca
SRBC	1073	Island Lake	64	Wayne	41-54-28	75-23-44	342	Starrucca
SRBC	1074	Mach Pond	64	Wayne	41-55-09	75-26-45	342	Starrucca
DDB	824	Reservoir No.7 Dam *	64	Wayne	41-35-00	75-27-18	642	Waymart
FBC	827	Lk Lorain	64	Wayne	41-48-12	75-25-33		
DDB	831	Little Sugar Run	65	Westmoreland	40-23-08	79-01-23	1513	New Florence
DDB	832	Perrins Marsh Dam	66	Wyoming	41-24-20	75-55-21	738	Center Moreland
DHL	1125	Ross Dam (a.k.a. Flow Pond)	66	Wyoming	41-31-18	75-52-06		Factoryville
DDB	834	Lake Kenia Dam	66	Wyoming	41-31-52	75-52-26	639	Factoryville
DDB	835	Saddle Lake	66	Wyoming	41-32-24	75-52-00	639	Factoryville
DDB	844	Lake Sheridan	66	Wyoming	41-35-42	75-46-06	639	Factoryville
DDB	848	Nicholson Borough Auth Horton Ck Re	66	Wyoming	41-37-20	75-47-46	639	Factoryville
SRBC	1075	Shibley Pond	66	Wyoming	41-37-20	75-51-29	639	Factoryville
DDB	838	Chamberlain Pond	66	Wyoming	41-34-48	76-08-48	636	Jenningsville
DDB	841	Negro Pond Dam	66	Wyoming	41-35-06	76-09-36	636	Jenningsville
DDB	842	Sharpe's Pond Dam	66	Wyoming	41-35-12	76-11-06	636	Jenningsville
SRBC	1076	Wild Fowl Pond	66	Wyoming	41-23-22	76-16-22	735	Lopez
DDB	837	Jennings Pond Dam	66	Wyoming	41-34-42	76-07-30	637	Meshoppen
DDB	847	Meshoppen Water Co Reservoir	66	Wyoming	41-37-03	76-02-47	637	Meshoppen
DDB	836	Oakwood Lk Dam (a.k.a. Cruvers Pond)	66	Wyoming	41-33-37	75-57-28	638	Tunkhannock
DHL	1123	Browns Pond	66	Wyoming	41-24-18	75-55-18		
FBC	846	Oxbow Lk	66	Wyoming	41-36-31	75-33-10		
DDB	866	Spring Grove Water Co Lake Pahagaco	67	York	39-53-03	76-53-20	1930	Abbottstown
DDB	867	Lake Pahagaco	67	York	39-53-06	76-53-30	1930	Abbottstown
DDB	887	Wrightsville Water Supp Co Miller L	67	York	40-01-50	76-31-55	1833	Columbia West
DDB	888	Marietta Gravity Water Co Dugans R	67	York	40-02-05	76-35-30	1833	Columbia West
DDB	889	Marietta Gravity Water Co Wildcat R	67	York	40-02-52	76-36-11	1833	Columbia West
DDB	891	Dillsburg Boro Auth Reservoir	67	York	40-05-54	77-03-48	1829	Dillsburg
DDB	853	Railroad Mun Water Reservoir	67	York	39-45-41	76-41-19	2032	Glen Rock
DDB	854	Cherry Tree Farm Dam	67	York	39-45-59	76-41-43	2032	Glen Rock
DDB	855	Deer Creek Business Park Dam	67	York	39-46-16	76-39-49	2032	Glen Rock
DDB	851	Hanover Mun Wtrwks-Shep-Myers Dam	67	York	39-45-16	76-59-42	2030	Hanover
DDB	856	Hanover Mun Wtr-Parrs Hill Res No 1	67	York	39-46-51	76-57-36	2030	Hanover
DDB	857	Hanover Mun Wtr-Parrs Hill Res No 2	67	York	39-46-51	76-57-38	2030	Hanover
DDB	861	Upper Pigeon Hill Dam	67	York	39-50-54	76-57-54	2030	Hanover
DDB	876	Red Lion Mun Auth Beaver Creek Dam	67	York	39-55-56	76-30-26	1933	Red Lion
DDB	879	Cabin Creek Res.	67	York	39-56-24	76-34-54	1933	Red Lion
DDB	880	Red Lion Mun Auth Cabin Creek Dam	67	York	39-56-32	76-34-53	1933	Red Lion
DDB	883	East Prospect Boro Water Dept Res	67	York	39-57-39	76-31-50	1933	Red Lion
DDB	862	Lake Lehman	67	York	39-51-48	76-52-06	2031	Seven Valleys
DDB	863	Spring Grove Water Co Lake Lehman	67	York	39-51-49	76-51-41	2031	Seven Valleys
DDB	864	Spring Grove Water Co Hanover Rd Da	67	York	39-52-02	76-52-13	2031	Seven Valleys
DDB	865	Spring Grove (Mill Dam)	67	York	39-52-06	76-52-00	2031	Seven Valleys
CCD	1080	Silver Lake	67	York	41-08-00	76-52-00	1731	Steelton
DDB	875	Thomasville S & L - Used Reservoir	67	York	39-55-25	76-51-17	1931	West York

Public Access	Source	Sig	Digitized?	Visited	Comments	Lake or Reservoir Name
No	CCD			No	No public access	Bailey Dam
No	CCD			No	No public access	Clemens/Harris Partnership Dam
No	CCD	Yes	Yes	Yes	Duplicate of #822	Spruce Reservoir*
				No	D(t)<14 days	Pa Gas & Water Co Brace Brook
No	SRBC	Yes	Yes	Yes	Duplicate of #1121	Orson Pond *
No	SRBC			Yes	No public access	Independent Lake
No	SRBC			Yes	No public access	Bone Pond
No	SRBC			Yes	No public access	tamarack swamp pond
No	SRBC			Yes	No public access	Spruce Lake
No	SRBC	Yes	Yes	Yes	No public access	Wrighter Lake Dam
No	SRBC			Yes	No public access	Coxton Lake
				No	D(t)<14 days	Beaver Pond Dam
No	SRBC			Yes	Rd posted private	Unnamed (elevation 1794 on quad)
No	SRBC			Yes	Rd posted private	Island Lake
No	SRBC			Yes	No public access	Mach Pond
No	SRBC	Yes		Yes	Duplicate of #825	Reservoir No.7 Dam *
No	PA F&B			No	No public access	Lk Lorain
				No	D(t)<14 days, not in srb	Little Sugar Run
No	CCD	Yes		No	No public access	Perrins Marsh Dam
No	SRBC	Yes	Yes	Yes		Ross Dam (a.k.a. Flow Pond)
No	CCD	Yes		No	No public access	Lake Kenia Dam
No	CCD	Yes		No	No public access	Saddle Lake
No	CCD	Yes		No	No public access	Lake Sheridan
No	CCD			No	No public access	Nicholson Borough Auth Horton Ck Re
No	CCD			No	No public access	Shibley Pond
No	CCD	Yes		No	No public access	Chamberlain Pond
No	CCD	Yes		No	No public access	Negro Pond Dam
No	CCD	Yes		No	No public access	Sharpe's Pond Dam
No	CCD			No	No public access	Wild Fowl Pond
No	CCD			No	No public access	Jennings Pond Dam
No	CCD			No	No public access	Meshoppen Water Co Reservoir
No	CCD	Yes		No	No public access	Oakwood Lake Dam (a.k.a. Cruvers Pond)
No	CCD	Yes		No	No public access	Browns Pond
No	CCD			No	No public access	Oxbow Lk
No	CCD	Yes			No public access	Spring Grove Water Co Lake Pahagaco
No	CCD	Yes			No public access	Lake Pahagaco
No	CCD				No public access	Wrightsville Water Supp Co Miller L
No	CCD				No public access	Marietta Gravity Water Co Dugans R
No	CCD				No public access	Marietta Gravity Water Co Wildcat R
No	CCD				No public access	Dillsburg Boro Auth Reservoir
No	CCD				No public access	Railroad Mun Water Reservoir
No	CCD	Yes			No public access	Cherry Tree Farm Dam
No	CCD				No public access	Deer Creek Business Park Dam
No	CCD	Yes			No public access	Hanover Mun Wtrwks-Shep-Myers Dam
No	CCD				No public access	Hanover Mun Wtr-Parrs Hill Res No 1
No	CCD				No public access	Hanover Mun Wtr-Parrs Hill Res No 2
No	CCD	Yes			No public access	Upper Pigeon Hill Dam
No	CCD				No public access	Red Lion Mun Auth Beaver Creek Dam
No	CCD	Yes			No public access	Cabin Creek Res.
No	CCD	Yes			No public access	Red Lion Mun Auth Cabin Creek Dam
No	CCD				No public access	East Prospect Boro Water Dept Res
No	CCD	Yes			No public access	Lake Lehman
No	CCD	Yes			No public access	Spring Grove Water Co Lake Lehman
No	CCD				No public access	Spring Grove Water Co Hanover Rd Da
No	CCD				No public access	Spring Grove (Mill Dam)
No	CCD		Yes		No public access	Silver Lake
No	CCD				No public access	Thomasville S & L - Used Reservoir

Table A1. Lakes With No Public Access or Detention Time Less Than 14 Days (D(t) <14)—Continued

Source	Lake or Reservoir ID Number and Name		County ID Number and Name		Latitude	Longitude	Quad	USGS Quad
DDB	878	Ensminger Qry-New Reservoir	67	York	39-56-16	76-47-21	1931	West York
DDB	881	Consolidated Quarry - New Reservoir	67	York	39-56-35	76-45-45	1931	West York
DDB	882	Noonan Dam	67	York	39-56-44	76-47-15	1931	West York
DDB	885	Delta Carbonate- New Res Wtr	67	York	39-58-06	76-45-27	1931	West York
DDB	886	Crown American Corp. Retention Dam	67	York	39-58-21	76-46-02	1931	West York
DDB	874	Kehm Run Dam	67	York	39-55-18	76-40-06	1932	York
DDB	877	York Water Co Reservoirs	67	York	39-55-56	76-43-30	1932	York
DHL	1087	Middle Pigeon Hill Dam	67	York	39-50-48	76-57-54		
DHL	1088	Indian Rock Res.	67	York	39-55-24	76-45-18		

Public Access	Source	Sig	Digitized?	Visited	Comments	Lake or Reservoir Name
No	CCD				No public access	Ensminger Qry-New Reservoir
No	CCD				No public access	Consolidated Quarry - New Reservoir
No	CCD				No public access	Noonan Dam
No	CCD				No public access	Delta Carbonate- New Res Wtr
No	CCD				No public access	Crown American Corp. Retention Dam
			Yes		D(t)<14 days	Kehm Run Dam
No	CCD				No public access	York Water Co Reservoirs
No	CCD	Yes			No public access	Middle Pigeon Hill Dam
No	CCD	Yes			No public access	Indian Rock Res.

Table A2. Lakes Deleted During Screening for Other Reasons

Source	Lake or Reservoir ID Number and Name	County ID Number and Name	Latitude	Longitude	Quad	USGS Quad
DDB	3 Lake Heritage	1 Adams	39-48-00	77-11-36	2028	Gettysburg
DDB	2 Hanover Mun Wtr-Clear Lake	1 Adams	39-46-24	77-02-00	2029	Mcsherrystown
DDB	9 Baugher Dam	1 Adams	39-58-53	77-10-37	1928	Biglerville
DDB	5 Unnamed	1 Adams	39-51-36	77-04-30	2029	Mcsherrystown
DDB	13 Highlands Farm (a.k.a. Peters Orchard)	1 Adams	40-02-51	77-09-01	1828	Mount Holly Springs
DDB	4 New Oxford M A 7 Ft Breastworks Res	1 Adams	39-51-33	77-04-12	2029	Mcsherrystown
DHL	1081 Unnamed	5 Bedford	35-59-36	78-39-54		?
DDB	28 Saxton Mun Wtrworks - Millers Run B	5 Bedford	40-12-52	78-09-54	1720	Saxton
PBB	898 Unnamed	6 Berks	40-10-48	75-54-06	1738	Morgantown
DDB	71 Bald Eagle Water Co - Bald Eagle Wc	7 Blair	40-40-38	78-13-52	1320	Tyrone
DDB	76 New Albany Mun Wtr Co Reservoir	8 Bradford	41-35-57	76-26-50	634	Dushore
PBB	918 Unnamed	8 Bradford	41-39-46	76-37-43	532	Leroy
PBB	943 Duman Lake	11 Cambria	40-34-15	78-50-15	1415	Colver
DDB	120 Patton Waterworks Reservoir	11 Cambria	40-37-49	78-38-36	1316	Hastings
DDB	127 Driftwood Boro Water Co Nanny Run R	12 Cameron	41-19-00	*78-09-30*	820	Driftwood
DDB	161 Unionville Water Authority Reserv 2 *	14 Centre	40-54-14	77-51-50	1123	Bellefonte
DDB	163 Bellefonte Boro Wa Dept Allegh St	14 Centre	40-54-31	77-46-35	1123	Bellefonte
DDB	169 Milesburg Boro Auth Fisher Gap Res	14 Centre	40-56-28	77-45-38	1123	Bellefonte
DDB	170 Milesburg Boro Auth Wallace Run Res	14 Centre	40-58-46	77-51-23	1123	Bellefonte
DDB	153 Centre Hall Boro Wa Centre Hall Res	14 Centre	40-51-11	77-41-25	1224	Centre Hall
DDB	155 Spring Twp Mun Auth Reservoir #1	14 Centre	40-51-25	77-43-49	1224	Centre Hall
DDB	156 Spring Twp Mun Auth Reservoir #2	14 Centre	40-51-26	77-43-50	1224	Centre Hall
DDB	157 Centre Hall Boro Wa Sharer Res	14 Centre	40-52-00	77-39-33	1224	Centre Hall
DDB	176 Howard Water Dept Old Res Egypt Hol	14 Centre	41-00-18	77-38-18	1024	Howard
DDB	180 Pine Glen Water Co Reservoir	14 Centre	41-06-06	78-02-40	1021	Karthaus
DDB	172 Nittany Water Company Roaring Run S	14 Centre	40-58-52	77-32-40	1125	Madisonburg
DDB	132 Phillips Creek Dam	14 Centre	40-54-40	*77-28-49*	1826	Millheim
DDB	168 Rebersburg Water Co Catch Basin *	14 Centre	40-55-50	77-26-06	1126	Millheim
DDB	166 Walker Twp Water Assoc Reservoir	14 Centre	40-55-20	77-38-27	1124	Mingoville
DDB	171 Mt Eagle Water Assn Reservoir	14 Centre	40-58-50	77-42-08	1124	Mingoville
DDB	173 Howard Water Dept New Res Dehil Hol	14 Centre	40-59-58	77-38-49	1124	Mingoville
DDB	145 Sandy Ridge Water Auth Reservoir #1	14 Centre	40-48-38	78-13-18	1220	Sandy Ridge
DDB	181 Orviston Water Asso Hayes Run Res	14 Centre	41-06-15	77-45-44	1023	Snow Shoe SE
DDB	135 Harris Twp Water Sys Reservoir	14 Centre	40-45-53	77-45-22	1223	State College
DDB	139 Neff Dam	14 Centre	40-47-45	77-48-24	1223	State College
DDB	140 Oak Hall Water System Reservoir #2	14 Centre	40-48-05	77-47-47	1223	State College
DDB	142 Oak Hall Water System Reservoir #1	14 Centre	40-48-13	77-47-43	1223	State College
DDB	146 Lemont Water Co Dale & Wayne St Res	14 Centre	40-48-44	77-48-43	1223	State College
DDB	183 Oxford Water Department Reservoir	15 Chester	39-47-45	75-58-28	2038	Oxford
DDB	187 Clearfield Wier #3	17 Clearfield	40-44-28	78-23-50	1318	Blandburg
DHL	1141 Unnamed (Near Clearfield Wier #3)	17 Clearfield				Blandburg
DDB	194 Burnside Boro Mun Auth Cemetary Rd	17 Clearfield	40-48-30	78-48-21	1215	Burnside
DDB	203 Raftman's Memorial Dam	17 Clearfield	41-01-42	78-26-12	1018	Clearfield
DDB	190 Clearfild Co Ms&R A Coalport Res	17 Clearfield	40-44-59	78-31-55	1317	Coalport
DDB	200 Pike Township Mun A Mcnaul St Res	17 Clearfield	40-59-04	78-32-00	1117	Curwensville
DDB	188 Westover Mun Authority Reservoir	17 Clearfield	40-44-33	78-40-12	1316	Hastings
DDB	195 Houtzdale Mun Auth Houtzdale Res	17 Clearfield	40-49-56	78-21-16	1219	Houtzdale
DDB	196 Ansonville Water Assn Inc-Res	17 Clearfield	40-50-21	78-34-13	1217	Irvona
DDB	215 Huston Twp W A Wilson Run Reservoir	17 Clearfield	41-14-19	78-35-22	917	Penfield
DDB	189 Houtzdale Mun Auth Moshannon Crk Re	17 Clearfield	40-44-35	78-22-14	1319	Tipton
DDB	225 Rauchtown Water Co Reservoir	18 Clinton	41-06-27	77-14-58	1028	Carroll
DDB	239 Small Beaver	18 Clinton	41-15-15	77-58-22	822	Keating
DDB	238 Woods Rock Crossing	18 Clinton	41-15-15	77-58-32	822	Keating
DDB	217 64 Water Co Inc Sink Run Reservoir	18 Clinton	41-01-23	77-28-28	1026	Mill hall
DDB	219 Mackeyville Water Co Intake Dam	18 Clinton	41-02-04	77-27-14	1026	Mill Hall
DDB	221 Dam B	18 Clinton	41-04-00	77-27-36	1026	Mill Hall
DDB	236 Thornapple	18 Clinton	41-14-49	77-58-51	922	Snow Shoe Nw

Public Access	Source	Sig	Digitized?	Visited	Comments	Lake or Reservoir Name
		Yes			Not in the SR watershed	Lake Heritage
					Not a lake	Hanover Mun Wtr-Clear Lake
No		Yes		Yes	Irrigation pond	Baugher Dam
No				Yes	Small dam	Unnamed
No		Yes		Yes	Irrigation pond	Highlands Farm (a.k.a. Peters Orchard)
					Dam on a creek	New Oxford M A 7 Ft Breastworks Res
Ukn	DHL	Yes			Latitude?? Not in Pa.	Unnamed
Unk	CCD				Small, near strip mining	Saxton Mun Wtrworks - Millers Run B
				Yes	Breeched approx. 1978	Unnamed
					Too small	Bald Eagle Water Co - Bald Eagle Wc
					Too small	New Albany Mun Wtr Co Reservoir
					Can't find	Unnamed
Yes	CCD		Yes	Mar-95	Out of the srb	Duman Lake
Yes	CCD				Too small	Patton Waterworks Reservoir
					Too small	Driftwood Boro Water Co Nanny Run R
					Too small, dup. of #162	Unionville Water Authority Reserv 2 *
					Too small	Bellefonte Boro Wa Dept Allegh St
					Too small	Milesburg Boro Auth Fisher Gap Res
					Too small	Milesburg Boro Auth Wallace Run Res
					Too small	Centre Hall Boro Wa Centre Hall Res
					Too small	Spring Twp Mun Auth Reservoir #1
					Too small	Spring Twp Mun Auth Reservoir #2
					Too small	Centre Hall Boro Wa Sharer Res
					Can't find	Howard Water Dept Old Res Egypt Hol
					Can't find	Pine Glen Water Co Reservoir
					Too small, can't find	Nittany Water Company Roaring Run S
					Too small	Phillips Creek Dam
					Dup. of #167, too small	Rebersburg Water Co Catch Basin *
					Too small	Walker Twp Water Assoc Reservoir
					Can't find	Mt Eagle Water Assn Reservoir
					Too small	Howard Water Dept New Res Dehil Hol
					Can't find	Sandy Ridge Water Auth Reservoir #1
					Too small	Orviston Water Asso Hayes Run Res
					Too small	Harris Twp Water Sys Reservoir
					On Spring Creek?	Neff Dam
					Too small	Oak Hall Water System Reservoir #2
					Too small	Oak Hall Water System Reservoir #1
					Too small	Lemont Water Co Dale & Wayne St Res
					Too small	Oxford Water Department Reservoir
				Yes	Too small	Clearfield Wier #3
Yes				Yes	Too small	Unnamed (Near Clearfield Wier #3)
					Too small	Burnside Boro Mun Auth Cemetary Rd
					On W.B. Susquehanna	Raftman's Memorial Dam
					Can't find on quad	Clearfild Co MS&R A Coalport Res
					Too small	Pike Township Mun A Mcnaul St Res
					Too small	Westover Mun Authority Reservoir
					Too small	Houtzdale Mun Auth Houtzdale Res
					Too small	Ansonville Water Assn Inc-Res
					Too small (AKA Penfield Res)	Huston Twp W A Wilson Run Reservoir
					Dam on stream	Houtzdale Mun Auth Moshannon Crk Re
					Too small	Rauchtown Water Co Reservoir
					Too small	Small Beaver
					Too small	Woods Rock Crossing
					Too small	64 Water Co Inc Sink Run Reservoir
					Can't find on quad	Mackeyville Water Co Intake Dam
					Too small	Dam B
					Too small	Thornapple

Table A2. Lakes Deleted During Screening for Other Reasons—Continued

Source	Lake or Reservoir ID Number and Name		County ID Number and Name		Latitude	Longitude	Quad	USGS Quad
DDB	246	Roaring Cr Wtr Co-Aristes Reserv	19	Columbia	40-49-30	*76-20-25*	1235	Ashland
DHL	1136	Mt. Carmel Mun. Wtr. Auth. Res. No. 4	19	Columbia	40-47-57	76-22-42		
DHL	1137	No. 3 Dam	19	Columbia	40-48-00	76-22-24		
DDB	279	Carlisle Boro Mun Auth Basin Hill R	21	Cumberland	40-13-28	77-11-03	1728	Carlisle
DDB	270	Mt Holly Springs Water Co Reservoir	21	Cumberland	40-06-04	77-14-25	1828	Mount Holly Springs
DDB	274	Newville Boro Water Auth Res 1 & 2	21	Cumberland	40-10-17	77-23-39	1726	Newville
DDB	305	Mill Dam	22	Dauphin	40-38-48	76-48-06	1331	Pillow
DDB	294	Elizabethville Water Co Reservoirs	22	Dauphin	40-32-42	76-48-39	1431	Elizabethville
DDB	293	Halifax Area Water Auth Res	22	Dauphin	40-27-56	76-55-34	1530	Halifax
DDB	286	Harrisburg Authority Lower Reservor	22	Dauphin	40-16-16	76-51-44	1632	Harrisburg East
DDB	287	Pa American Wa Co Manada Crk	22	Dauphin	40-18-38	76-40-13	2112	Hershey
DDB	299	Williamstown Boro Auth Reservoir #1	22	Dauphin	40-33-50	76-39-06	1432	Lykens
DDB	300	Williamstown Boro Auth Reservoir #2	22	Dauphin	40-33-51	76-39-00	1432	Lykens
DDB	307	Jay Twp Water Auth Open Reservoir	24	Elk	41-17-53	78-30-55	817	Kersey
DDB	308	Jay Twp Water Auth B H Inc Res	24	Elk	41-18-26	78-31-18	817	Kersey
DDB	309	Fox Homes Imp Assn Jackson Spr Res	24	Elk	41-20-31	78-34-05	817	Kersey
DDB	306	Byrnes Run Intake Dam	24	Elk	41-17-48	78-30-56	817	Kersey
DDB	317	Meadows Grounds	29	Fulton	39-54-06	78-03-42	1921	Meadow Grounds
DDB	329	Huntington Boro Water Dept Res # 2	31	Huntingdon	40-29-23	78-00-24	1521	Huntingdon
DDB	328	Lily Creek	31	Huntingdon	40-29-24	78-02-24	1521	Huntingdon
DDB	330	Huntington Boro Water Dept Res # 1	31	Huntingdon	40-29-28	78-00-24	1521	Huntingdon
DDB	331	Alexandria Boro Water Auth Pond	31	Huntingdon	40-30-54	78-08-23	1420	Spruce Creek
DDB	333	Alexandria Boro Water Auth Res #2	31	Huntingdon	40-31-03	78-08-13	1420	Spruce Creek
DDB	339	Bald Eagle Water Co - 100 S Resvoir	31	Huntingdon	40-39-15	78-12-09	1320	Tyrone
DDB	376	Ransom Quarry - Used Stor Ponds	35	Lackawanna	41-23-31	75-48-21	739	Ransom
FBC	556	McDade Park Lk	35	Lackawanna	41-24-57	76-42-40		
DHL	1096	No. 2 Dam	35	Lackawanna	41-33-24	75-32-36		Carbondale
DDB	436	Coatesville Water Auth-W Br Oct Dam	36	Lancaster	39-52-51	76-06-25	1937	Gap
DDB	437	Coatesville Water Auth-Mars Hill Rs	36	Lancaster	39-54-27	76-05-06	1937	Gap
DDB	443	Compass Quarries - Used Reservoir	36	Lancaster	39-59-40	76-05-32	1937	Gap
DDB	445	Lancaster Real Estate Dam	36	Lancaster	40-01-21	76-11-56	1836	Leola
DDB	450	New Holland Boro Concrete Reservoir	36	Lancaster	40-04-40	76-02-45	1837	New holland
DDB	442	Christiana Borough Reservoirs A B	36	Lancaster	39-58-54	75-59-22	1938	Parkesburg
DDB	449	Pond A	36	Lancaster	40-04-12	76-27-57	1834	Columbia East
DDB	453	Newcomer /Hill Dam	36	Lancaster	40-05-09	76-27-36	1834	Columbia East
DDB	454	Hurst Brothers	36	Lancaster	40-05-25	76-23-30	1834	Columbia East
DDB	441	Strasburg Boro Reservoir	36	Lancaster	39-57-45	76-08-59	1936	Quarryville
DHL	1083	Unnamed	36	Lancaster	40-07-30	76-42-12		
DDB	473	Pond No 1	38	Lebanon	40-18-52	76-28-22	1634	Lebanon
DDB	474	Pond No 2	38	Lebanon	40-18-57	76-28-27	1634	Lebanon
DDB	475	Pond No 3	38	Lebanon	40-19-01	76-28-31	1634	Lebanon
DDB	476	Pa American Wa Co Hersh Palm Meyr	38	Lebanon	40-20-37	76-30-09	1633	Palmyra
DHL	1085	Bernard Dam	38	Lebanon	40-16-42	76-24-24		
DHL	1086	No. 2 Dam	38	Lebanon	40-19-12	76-35-54		
DHL	1084	Fortnas Dam	38	Lebanon	40-21-12	76-26-06		
DDB	485	Trout Unlimited Dam	38	Lebanon	?	?	?	?
DDB	494	Shirley M Rinehimer 3 Used Water P.	40	Luzerne	41-03-22	76-11-43	1036	Berwick
FBC	496	Lk Took A While	40	Luzerne	41-06-02	76-08-09		Berwick
DHL	1098	Oneida Dam	40	Luzerne	40-56-24	75-59-24		Hazleton
DDB	492	Hazleton Wtr Auth-Ebervale Resrv	40	Luzerne	40-59-14	75-56-30	1138	Hazleton
DDB	553	Recupero Dam	40	Luzerne	41-21-48	75-53-40	838	Kingston
PBB	964	Unnamed	40	Luzerne	41-08-08	76-02-45	937	Nanticoke
DDB	529	Pa Gas & Water Co Mill Crk Can Hdwk	40	Luzerne	41-15-29	75-45-35	839	Pittston
DDB	542	Pa Gas & Water Co Crescent	40	Luzerne	41-16-34	75-45-25	839	Pittston
PBB	968	Lake Rose	40	Luzerne	41-19-52	76-17-47	835	Red rock
DDB	503	Pa Gas & Water Co Wanamie Storage	40	Luzerne	41-08-58	76-10-01	936	Shickshinny
DDB	506	Kuchta Dam	40	Luzerne	41-10-06	76-10-05	936	Shickshinny

Public Access	Source	Sig	Digitized?	Visited	Comments	Lake or Reservoir Name
					Too small, not a lake	Roaring Cr Wtr Co-Aristes Reserv
Ukn	DHL	Yes			Small; public access ukn	Mt. Carmel Mun. Wtr. Auth. Res. No. 4
Ukn	DHL	Yes			Small, near strip mining	No. 3 Dam
					Too small, not a lake	Carlisle Boro Mun Auth Basin Hill R
					Too small	Mt Holly Springs Water Co Reservoir
					Too small	Newville Boro Water Auth Res 1 & 2
Yes	SRBC			Yes	Not a lake	Mill Dam
					Too small	Elizabethville Water Co Reservoirs
					Too small	Halifax Area Water Auth Res
Yes*	CCD				Public access?--fenced	Harrisburg Authority Lower Reservor
					Not a lake	Pa American Wa Co Manada Crk
					Too small	Williamstown Boro Auth Reservoir #1
					Too small	Williamstown Boro Auth Reservoir #2
Yes	SRBC			No	Fishing, but too small	Jay Twp Water Auth Open Reservoir
No	SRBC			No	Stream intake	Jay Twp Water Auth B H Inc Res
No	SRBC			No	Too small	Fox Homes Imp Assn Jackson Spr Res
No	SRBC				Not a lake	Byrnes Run Intake Dam
Yes	CCD	Yes	Yes	1-Jun		Meadows Grounds
					Too small	Huntington Boro Water Dept Res #2
					Too small	Lily Creek
					Too small	Huntington Boro Water Dept Res #1
					Too small	Alexandria Boro Water Auth Pond
					Too small	Alexandria Boro Water Auth Res #2
					Too small	Bald Eagle Water Co - 100 S Resvoir
					Can't find on quad	Ransom Quarry - Used Stor Ponds
					Too small	McDade Park Lk
Ukn	DHL	Yes		No	Can't find on quad	No. 2 Dam
					Not a lake	Coatesville Water Auth-W Br Oct Dam
					Not a lake	Coatesville Water Auth-Mars Hill Rs
					No water, dry sinkhole	Compass Quarries - Used Reservoir
					Can't find	Lancaster Real Estate Dam
					Too small	New Holland Boro Concrete Reservoir
					Too small	Christiana Borough Reservoirs A B
No	PBB			Yes	Detention basin	Pond A
No	PBB			Yes	5' dam on creek	Newcomer/Hill Dam
No	PBB			Yes	Detention basin	Hurst Brothers
					Too small	Strasburg Boro Reservoir
Ukn	DHL	Yes			Small; public access ukn	Unnamed
					Too small	Pond No 1
					Too small	Pond No 2
					Too small	Pond No 3
					Too small	Pa American Wa Co Hersh Palm Meyr R
Ukn	DHL	Yes			Too small to find	Bernard Dam
Ukn	DHL	Yes			Small; public access ukn	No. 2 Dam
Ukn	DHL	Yes			Tailings pond?	Fortnas Dam
						Trout Unlimited Dam
					Can't find on quad	Shirley M Rinehimer 3 Used Water P.
					Not a lake	Lk Took A While
Ukn	DHL	Yes			Unable to locate	Oneida Dam
					Too small	Hazleton Wtr Auth-Ebervale Resrv
No				Yes	Too small -posted no tres	Recupero Dam
				Yes	No longer exists (marsh)	Unnamed
					Not a lake	Pa Gas & Water Co Mill Crk Can Hdwk
					Can't find on quad	Pa Gas & Water Co Crescent
					Drained, dry	lake Rose
		Yes			Can't find on quad	Pa Gas & Water Co Wanamie Storage
					Can't find on quad	Kuchta Dam

Table A2. Lakes Deleted During Screening for Other Reasons—Continued

Source	Lake or Reservoir ID Number and Name	County ID Number and Name	Latitude	Longitude	Quad	USGS Quad
PBB	970 Splashdam Pond	40 Luzerne	41-20-46	76-12-34	836	Sweet Valley
DDB	515 Pa Gas & Water Co Plymouth Relief	40 Luzerne	41-14-20	75-58-35	938	Wilkes-Barre W
DDB	517 Duffy's Run Dam	40 Luzerne	41-14-30	75-57-30	938	Wilkes-Barre W
DDB	518 Wadham Creek Dam	40 Luzerne	41-14-30	75-57-18	938	Wilkes-Barre W
DDB	520 Brown Creek Dam	40 Luzerne	41-14-36	75-56-30	938	Wilkes-Barre W
DDB	564 Jersey Shore Ar Jt W A Roaring Run	41 Lycoming	41-11-18	77-17-40	927	Jersey Shore
DDB	568 Jersey Shore Water Co L P Reservoir	41 Lycoming	41-11-45	77-16-06	927	Jersey Shore
DDB	558 Collomsville Wa Co Rattlin Run Res	41 Lycoming	41-08-40	77-07-36	928	Linden
DDB	573 Montoursville Mun Waterworks Syl De	41 Lycoming	41-13-44	76-56-06	930	Montoursville S
DDB	567 Muncy Boro Water Dept Reservoir	41 Lycoming	41-11-30	76-46-36	931	Muncy
DDB	576 Hughesville Boro Wtr Co Reservoir	41 Lycoming	41-15-08	76-43-13	832	Picture Rocks
DDB	582 Ralston Water & Power Co Reservoir	41 Lycoming	41-30-29	76-57-27	630	Ralston
DDB	574 Hepburn St. Dam	41 Lycoming	41-14-00	77-00-18	929	Williamsport
DDB	616 Upper Dam	49 Northumberland	40-52-47	76-30-16	1133	Danville
DDB	617 Lower Dam	49 Northumberland	40-52-50	76-30-16	1133	Danville
DDB	619 Pa American Wtr Co White Deer Watsn	49 Northumberland	41-05-15	76-51-18	1031	Milton
DDB	620 Muncy Boro Water Dept Glade Run Int	49 Northumberland	41-10-17	76-46-18	931	Muncy
DDB	595 Herndon Mun Water System Coll Basin	49 Northumberland	40-44-27	76-50-04	1331	Pillow
DDB	596 Excelsior Water Association Reserv	49 Northumberland	40-45-51	76-31-04	1233	Shamokin
DDB	597 Northumberland Util Inc Treverton R	49 Northumberland	40-46-52	76-39-47	1232	Treverton
DHL	1138 Unnamed Lake On Marsh Creek	53 Potter	41-58-36	77-44-12		
DDB	674 Shenandoah Creek	54 Schuylkill	40-49-54	76-10-18	1236	Shenandoah
DDB	658 Ashland State General Hospital Res	54 Schuylkill	40-45-50	76-17-11	1235	Ashland
DDB	655 Northumb Util Citizens Instream Re	54 Schuylkill	40-44-35	76-20-05	1335	Minersville
DDB	647 Tremont Gas & Water Co Lower Poplar	54 Schuylkill	40-37-21	76-24-13	1434	Pine Grove
DDB	648 Tremont Gas & Water Co Fire Res	54 Schuylkill	40-37-25	76-24-09	1434	Pine Grove
DDB	649 Tremont Gas & Water Co Upper Poplar	54 Schuylkill	40-37-26	76-24-04	1434	Pine Grove
DDB	662 Pa Am W C Frackville Distribution R	54 Schuylkill	40-47-13	76-14-38	1236	Shenandoah
DDB	669 Shenandoah Mun W Auth-Drained	54 Schuylkill	40-49-49	76-12-02	1236	Shenandoah
DDB	675 Mahanoy Twp Auth Craig's Feeder C R	54 Schuylkill	40-49-58	76-08-35	1236	Shenandoah
DDB	677 Mahanoy Twp Auth Cold Run Res # 5	54 Schuylkill	40-50-05	76-08-20	1236	Shenandoah
DDB	640 Tower City Boro Auth Res #2 Stoney M	54 Schuylkill	40-34-00	76-32-39	1433	Tower City
DDB	643 Tower City Boro Auth Res #1 Peters M	54 Schuylkill	40-34-27	76-33-17	1433	Tower City
DDB	651 Hegins Twp Water Auth Large Res	54 Schuylkill	40-37-57	76-31-27	1333	Valley View
DDB	652 Hegins Twp Water Auth Small Res	54 Schuylkill	40-37-57	76-31-29	1333	Valley View
DDB	653 Hegins Twp Water Auth Collection Bn	54 Schuylkill	40-38-19	76-31-21	1333	Valley View
DDB	654 Northumb Util Ratt Run Dam	54 Schuylkill	40-44-30	76-18-58	1335	Minersville
DDB	708 Richfield Area Jt Auth Main Res	55 Snyder	40-42-04	77-07-46	1328	Beaver Springs
DDB	719 Selinsgrove Mun Waterworks Hill Res	55 Snyder	40-47-55	76-52-48	1230	Freeburg
DDB	707 McClure Mun Authority Reservoir	55 Snyder	40-41-58	77-18-42	1327	McClure
DDB	717 Middleburg Mun Authority Reservoir	55 Snyder	40-46-05	77-02-58	1229	Middleburg
DDB	720 Selinsgrove Mun Waterworks Snyder R	55 Snyder	40-48-03	76-51-33	1231	Sunbury
DDB	721 Shamokin Dam Water Auth Raw W Res	55 Snyder	40-51-02	76-48-43	1231	Sunbury
CCD	1145 Glass Creek Pond	57 Sullivan	41-23-57	76-25-32		Laporte
DDB	728 Laporte Boro Water Supply Reservoir	57 Sullivan	41-24-59	76-29-51	734	Laporte
CCD	1158 Little Rouse Pond	57 Sullivan	41-26-27	76-16-51		Lopez
CCD	1147 Williams Lake	57 Sullivan	41-34-24	76-38-40		Shunk
DDB	723 Upper Boone Lake Dam	57 Sullivan	41-20-55	76-37-06	833	Sonestown
DDB	760 Pa Am W C Northeast D Montrose Resv	58 Susquehanna	41-50-26	75-52-16	439	Montrose East
DDB	776 Pa Am W C Northeast D Reed Pond	58 Susquehanna	41-55-50	75-33-21	341	Susquehanna
DDB	785 Colwell Dam	58 Susquehanna	41-58-42	75-38-09	340	Great Bend
DDB	739 Holly Dam	58 Susquehanna	41-40-50	75-47-10	539	Hop Bottom
DDB	741 Hop Bottom Water Co-Reservoir	58 Susquehanna	41-42-26	75-45-42	539	Hop Bottom
DDB	764 Montrose Quarry - New Wtr St.Pond	58 Susquehanna	41-51-04	75-50-09	439	Montrose East
DDB	752 Lake Anna	58 Susquehanna	41-46-10	75-54-40	438	Montrose West
DDB	762 Chalker Dam	58 Susquehanna	41-50-35	75-58-50	438	Montrose West

Public Access	Source	Sig	Digitized?	Visited	Comments	Lake or Reservoir Name
				Yes	No longer exists (marsh)	Splashdam Pond
					Not a lake	Pa Gas & Water Co Plymouth Relief
					Not a lake, dup. of #518?	Duffy's Run Dam
					Not a lake, dup. of #517?	Wadham Creek Dam
					Not a lake	Brown Creek Dam
					Withdrawal from pine cr.	Jersey Shore Ar Jt W A Roaring Run
					Not a lake; too small	Jersey Shore Water Co L P Reservoir
					Can't find on quad	Collomsville Wa Co Rattlin Run Res
					Too small	Montoursville Mun Waterworks Syl De
					Too small	Muncy Boro Water Dept Reservoir
					Too small	Hughesville Boro Wtr Co Reservoir
					Too small	Ralston Water & Power Co Reservoir
Yes	CCD				Not a lake	Hepburn St. Dam
					Dam on stream	Upper Dam
					Dam on stream	Lower Dam
					Too small	Pa American Wtr Co White Deer Watsn
					Not a lake	Muncy Boro Water Dept Glade Run Int
					Too small	Herndon Mun Water System Coll Basin
					Small, near strip mining	Excelsior Water Association Reserv
					Too small	Northumberland Util Inc Treverton R
Ukn	DHL	Yes			Small; public access ukn	Unnamed Lake On Marsh Creek
		Yes			Can't find on quad	Shenandoah Creek
					Too small	Ashland State General Hospital Res
					Too small	Northumb Util Citizens Instream Re
					Too small	Tremont Gas & Water Co Lower Poplar
					Too small	Tremont Gas & Water Co Fire Res
					Too small	Tremont Gas & Water Co Upper Poplar
					Too small	Pa Am W C Frackville Distribution R
		Yes			Drained	Shenandoah Mun W Auth-Drained
					Too small	Mahanoy Twp Auth Craig's Feeder C R
					Too small	Mahanoy Twp Auth Cold Run Res #5
					Too small	Tower City Boro Auth Res #2 Stoney M
					Too small	Tower City Boro Auth Res #1 Peters M
					Too small	Hegins Twp Water Auth Large Res
					Too small	Hegins Twp Water Auth Small Res
					Not a lake	Hegins Twp Water Auth Collection Bn
				No	a.k.a. Gorden Res. too small	Northumb Util Ratt Run Dam
					Too small	Richfield Area Jt Auth Main Res
					Too small	Selinsgrove Mun Waterworks Hill Res
					Too small	McClure Mun Authority Reservoir
					Too small	Middleburg Mun Authority Reservoir
					Too small	Selinsgrove Mun Waterworks Snyder R
					Not a lake	Shamokin Dam Water Auth Raw W Res
Yes	CCD			Yes	Has filled in as marsh	Glass Creek Pond
					Too small	Laporte Boro Water Supply Reservoir
Yes	CCD				Too small	Little Rouse Pond
					Too small	Williams Lake
		Yes			Too small	Upper Boone Lake Dam
					Too small	Pa Am W C Northeast D Montrose Resv
					Too small	Pa Am W C Northeast D Reed Pond
		Yes			Too small	Colwell Dam
		Yes			Too small	Holly Dam
					Too small	Hop Bottom Water Co-Reservoir
					Too small	Montrose Quarry - New Wtr St.Pond
		Yes			Too small	Lake Anna
		Yes			Too small	Chalker Dam

Table A2. Lakes Deleted During Screening for Other Reasons—Continued

Source	Lake or Reservoir ID Number and Name		County ID Number and Name		Latitude	Longitude	Quad	USGS Quad
DDB	783	Kapp Dam	58	Susquehanna	41-58-21	75-51-41	339	Franklin Forks
PBB	1052	Unnamed	58	Susquehanna	41-57-28	75-29-38	342	Starrucca
DDB	788	Duncan Twp Mun Water Auth Reservoir	59	Tioga	41-38-20	77-17-08	527	Antrim
DDB	814	Elkland Water Dept Reservoir	59	Tioga	41-59-48	77-18-53	327	Elkland
DDB	812	Knoxville Boro Wtr Dept Reservoir	59	Tioga	41-58-02	77-26-37	326	Knoxville
DDB	811	Westfield Boro Wtrwks Reservoir	59	Tioga	41-54-50	77-32-33	325	Potter Brook
DHL	1140	Fishing Dam	59	Tioga	41-48-42	77-13-00		
DHL	1139	Closes Run Dam	59	Tioga	41-54-42	77-32-24		
		Lake Augusta- * Fibre Dam, Main Stem	60	Union				
DDB	830	Sugar Run	65	Westmoreland	40-22-48	79-01-24	1513	New Florence
DDB	840	Wikoski Edmund-Pond	66	Wyoming	41-34-58	76-04-04	637	Meshoppen
DDB	892	Hykes Mill Dam	67	York	40-06-06	76-46-00	1831	Dover
DDB	894	Pa American Wtr Co Cap Div Yell Br	67	York	40-13-17	76-51-42	1731	Steelton
DDB	884	Codorus Creek Bascule Dam	67	York	39-57-46	76-44-00	1932	York
DDB	893	York Haven	67	York	40-06-54	76-42-48	1832	Yorkhaven
DDB	895	Chester Wa Auth Conowingo D Sus Riv	69	Maryland	39-39-40	76-10-22	2136	Conowingo Dam

Public Access	Source	Sig	Digitized?	Visited	Comments	Lake or Reservoir Name
Yes	SRBC	Yes		Yes	Too small	Kapp Dam
No	SRBC			Yes	S.g.l. #70-lake drained	Unnamed
					Too small, not a lake	Duncan Twp Mun Water Auth Reservoir
					Too small, not a lake	Elkland Water Dept Reservoir
					Too small, not a lake	Knoxville Boro Wtr Dept Reservoir
					Too small, not a lake	Westfield Boro Wtrwks Reservoir
Ukn	DHL	Yes			Dropped: not found	Fishing Dam
Ukn	DHL	Yes			Small; public access ukn	Closes Run Dam
Yes*	CCD	No*			Not a lake	Lake Augusta- * Fibre Dam, Main Stem
		Yes			Not in srb	Sugar Run
Unk	CCD				Small; public access ukn	Wikoski Edmund-Pond
Yes	CCD		Yes		Not a lake	Hykes Mill Dam
Yes	CCD				Not a lake	Pa American Wtr Co Cap Div Yell Br
Yes	CCD				Not a lake	Codorus Creek Bascule Dam
Yes*	CCD				Main Stem impoundment	York Haven
Yes*	CCD				Main Stem impoundment	Chester Wa Auth Conowingo D Sus Riv

Table A3. Duplicate Entries Deleted During Screening

Source	Lake or Reservoir ID Number and Name		County ID Number and Name		Latitude	Longitude	Quad	USGS Quad
DHL	1132	Calvin Pond Dam	8	Bradford	41-56-55	76-41-39		Bentley Creek
DHL	1133	Steinhauer Dam	8	Bradford	41-59-35	76-49-36		Gillett
DHL	1093	Res. Dam (a.k.a. Bakerton Res.)	11	Cambria	40-35-24	78-43-48		Carrolltown
DDB	116	Bakerton	11	Cambria	40-35-24	78-43-48	1416	Carrolltown
DDB	117	W Carroll Twp W A Bakerton Resrvr	11	Cambria	40-35-27	78-43-42	1416	Carrolltown
DHL	1089	Glendale Dam	11	Cambria	40-39-00	78-32-00		Coalport
DHL	1090	Prince Gallitzin St. Park	11	Cambria	40-39-18	78-28-06		Coalport
DDB	118	Big Brown Dam	11	Cambria	40-37-00	78-46-54	1415	Colver
DDB	119	Spangler Mun Auth Brown's Run	11	Cambria	40-37-02	78-46-54	1415	Colver
DDB	162	Unionville Water Authority Reserv 1	14	Centre	40-54-16	77-51-50	1123	Bellefonte
DHL	1134	Kephart Dam	14	Centre	40-55-06	78-03-36		Black Moshannon
DDB	167	Rebersburg Water Co Reservoir	14	Centre	40-55-50	77-26-06	1126	Millheim
DDB	149	Rockview State Corr Inst Mcbride Rs	14	Centre	40-49-59	77-45-21	1223	State College
DDB	184	Pine Grove Dam (Octoraro Lake)	15	Chester	39-47-54	76-02-36	2037	Kirkwood
DDB	207	Clearfield Mun Wtr Auth Moose Res	17	Clearfield	41-03-20	78-28-20	1018	Clearfield
DDB	201	Pike Township Mun A Bear Run Res	17	Clearfield	41-01-12	78-34-11	1017	Elliot Park
DDB	205	Clearfield Mun Wtr Auth Mont Res	17	Clearfield	41-01-50	78-30-46	1017	Elliot Park
DDB	208	Dubois Water Dept Dubois Mn Reservr	17	Clearfield	41-05-39	78-38-00	1016	Luthersburg
FBC	216	Curwensville Lk (COE)	17	Clearfield	50-57-15	78-31-36		
DDB	228	Lock Haven City Auth Keller Res	18	Clinton	41-07-30	77-20-18	1027	Loganton
DDB	315	Shippensburg Water System Gunter Va	28	Franklin	40-08-17	77-40-20	1724	Doylesburg
PBB	949	Mountain Mud Pond	35	Lackawanna	41-35-24	75-31-48	641	Carbondale
DDB	360	Maple Lake	35	Lackawanna	41-19-36	75-35-06	841	Moscow
DDB	368	Elmhurst	35	Lackawanna	41-22-18	75-32-30	841	Moscow
DDB	371	Curtis	35	Lackawanna	41-22-30	75-30-42	841	Moscow
DDB	381	Dunmore No.1	35	Lackawanna	41-25-00	75-36-18	741	Olyphant
DDB	390	Olyphant No.2 Dam	35	Lackawanna	41-28-00	75-31-54	741	Olyphant
DDB	393	Olyphant No.3	35	Lackawanna	41-28-12	75-31-54	741	Olyphant
DDB	395	Olyphant No.1	35	Lackawanna	41-28-18	75-31-48	741	Olyphant
DDB	400	Laurel Run	35	Lackawanna	41-29-12	75-31-24	741	Olyphant
FBC	402	Ford Lk	35	Lackawanna	41-29-23	75-45-59	739	Ransom
DDB	398	Summit Lake Reservoir	35	Lackawanna	41-28-29	75-42-47	740	Scranton
DDB	420	No.4 Res.	35	Lackawanna	41-34-30	75-27-30	642	Waymart
DDB	418	Pa Gas & Water Co Brownell*	35	Lackawanna	41-34-27	75-28-26	642	Waymart
DDB	433	Holtwood Dam	36	Lancaster	39-49-42	76-20-12	2035	Holtwood
DDB	438	Safe Harbor Dam	36	Lancaster	39-55-12	76-23-18	1934	Safe Harbor
DHL	1099	Upper Mount Pleasant	40	Luzerne	40-55-18	76-01-24		Conyngham
DDB	488	Humboldt reservoir	40	Luzerne	40-56-30	76-03-42	1137	Conyngham
DDB	490	Lake Irena	40	Luzerne	40-58-49	76-00-15	1137	Conyngham
DDB	536	Pikes Creek Dam *	40	Luzerne	41-15-54	76-02-58	837	Harveys Lake
DDB	534	Pa Gas & Water Co Chenery (Res) *	40	Luzerne	41-15-54	76-02-57	837	Harveys Lake
DDB	544	Pa Gas & Water Co Hillside Filter *	40	Luzerne	41-17-55	75-55-39	838	Kingston
DDB	523	Laurel Run Dam No. 2	40	Luzerne	41-14-54	75-49-06	939	Wilkes-Barre E
DDB	508	Crystal Lake *	40	Luzerne	41-10-12	75-50-42	939	Wilkes-Barre E
DDB	501	Blue Giant Meadow	40	Luzerne	41-08-42	75-56-36	938	Wilkes-Barre W
DHL	1104	Meadow Dam (a.k.a. Ice Ponds)	40	Luzerne	41-08-42	75-56-36		Wilkes-Barre W
DDB	622	Blain Water Co Blain Reservoir	50	Perry	40-20-15	77-31-59	1625	Blain
DDB	661	Ashland Reservoir	54	Schuylkill	40-46-42	76-15-42	1235	Ashland
DDB	670	Ringtown Reservoir No. 6	54	Schuylkill	40-49-52	76-16-55	1235	Ashland
DHL	1105	No. 3 Dam	54	Schuylkill	40-50-24	76-06-48		Delano
DDB	701	Lofty Reservoir	54	Schuylkill	40-52-18	76-02-48	1237	Delano
DDB	639	High Bridge Dam (a.k.a. Lebanon Res)	54	Schuylkill	40-32-42	76-29-48	1434	Pine Grove
DDB	663	Raven Run Dam No. 2	54	Schuylkill	40-49-18	76-14-30	1236	Shenandoah
DDB	666	Raven Run Dam No. 3	54	Schuylkill	40-49-30	76-14-18	1236	Shenandoah
DDB	687	Kehly Run Dam No. 5	54	Schuylkill	40-50-24	76-12-06	1236	Shenandoah
DDB	691	Wastehouse No. 1	54	Schuylkill	40-50-02	76-09-51	1236	Shenandoah
DDB	678	Wastehouse Run No. 3	54	Schuylkill	40-50-34	76-09-40	1236	Shenandoah
DDB	681	Ringtown Boro Mun Auth Reservoir	54	Schuylkill	40-50-33	76-14-48	1236	Shenandoah
DDB	690	Ringtown Dam No. 5	54	Schuylkill	40-50-30	76-15-00	1236	Shenandoah

Public Access	Source	Sig	Digitized?	Visited	Comments	Lake or Reservoir Name
Ukn	DHL	Yes			Duplicate of #100	Calvin Pond Dam
Ukn	DHL	Yes			Duplicate of #105	Steinhauer Dam
Ukn	DHL	Yes			Duplicate of #1092,116,117	Res. Dam (a.k.a. Bakerton Res.)
No	CCD	Yes			Duplicate of #1092,117,1093	Bakerton
No	CCD	Yes			Duplicate of #1092,116,1093	W Carroll Twp W A Bakerton Resrvr
Yes	DHL	Yes			Dup. of #'s 122, 1090	Glendale Dam
Yes	DHL	Yes			Dup. of #'s 122, 1089	Prince Gallitzin St. Park
No	CCD	Yes			Duplicate of #1094, 119	Big Brown Dam
No	CCD				Duplicate of #1094, 118	Spangler Mun Auth Brown's Run
					Too small, dup. Of #161	Unionville Water Authority Reserv 1
Yes	DHL	Yes			Duplicate of # 165	Kephart Dam
					Dup. of #168, too small	Rebersburg Water Co Reservoir
					D(t)<14 days, dup of #150	Rockview State Corr Inst Mcbride Rs
		Yes	Yes		Duplicate of #430	Pine Grove Dam (Octoraro Lake)
No					Duplicate of #206	Clearfield Mun Wtr Auth Moose Res
					D(t)<14 days, dup. of #202	Pike Township Mun A Bear Run Res
No					Duplicate of #204	Clearfield Mun Wtr Auth Mont Res
No					Duplicate of #209	Dubois Water Dept Dubois Mn Reservr
			Yes		Duplicate of #199	Curwensville Lk (COE)
		Yes			D(t)<14 days, dup. of #229	Lock Haven City Auth Keller Res
		Yes			Duplicate of #316	Shippensburg Water System Gunter Va
					Duplicate of #423	Mountain Mud Pond
Yes	PA G&W	Yes			Duplicate of #359	Maple Lake
		Yes			Duplicate of #367	Elmhurst
		Yes			Duplicate of #370	Curtis
		Yes			Duplicate of #380	Dunmore No.1
		Yes			Duplicate of #388	Olyphant No.2 Dam
		Yes			Duplicate of #396	Olyphant No.3
					Duplicate of #389	Olyphant No.1
No	PA G&W				Duplicate of #401	Laurel Run
Yes	DHL				Duplicate of #404	Ford Lk
Yes	PA G&W	Yes			No public access,dup #399	Summit Lake Reservoir
		Yes			Duplicate of #419	No.4 Res.
No	PA G&W	Yes			No public access,dup #417	Pa Gas & Water Co Brownell*
Yes	CCD	Yes			D(t)<14; dup. of #432	Holtwood Dam
Yes	CCD	Yes			D(t)<14; dup. of #439	Safe Harbor Dam
Ukn	DHL	Yes			Duplicate of #486	Upper Mount Pleasant
		Yes			Duplicate of #487	Humboldt Reservoir
		Yes			Duplicate of #491	Lake Irena
No	PA G&W	Yes			Duplicate of #535,#534	Pikes Creek Dam *
No	PA G&W				No pub acc, dup #536,#535	Pa Gas & Water Co Chenery (Res) *
No	PA G&W				No pub acc, dup of #545	Pa Gas & Water Co Hillside Filter *
					Dup. of #522, D(t)<14 !!!!!	Laurel Run Dam No. 2
No	PA G&W	Yes			Duplicate of #507	Crystal Lake *
		Yes			Duplicate of #1104, 500	Blue Giant Meadow
Ukn	DHL	Yes			Duplicate of #500, 501	Meadow Dam (a.k.a. Ice Ponds)
No	CCD				No pub acc, dup of #623	Blain Water Co Blain Reservoir
		Yes			Duplicate of #659	Ashland Reservoir
		Yes			Duplicate of #671	Ringtown Reservoir No. 6
Ukn	DHL	Yes			Duplicate of #688	No. 3 Dam
		Yes			Duplicate of #702	Lofty Reservoir
		Yes			Duplicate of #638	High Bridge Dam, a.k.a. Lebanon Res.
		Yes			Duplicate of #664	Raven Run Dam No. 2
		Yes			Duplicate of #665	Raven Run Dam No. 3
		Yes			Duplicate of #668	Kehly Run Dam No. 5
		Yes			Duplicate of #679	Wastehouse No. 1
		Yes			Duplicate of #695	Wastehouse Run No. 3
					Duplicate of #690, 693	Ringtown Boro Mun Auth Reservoir
		Yes			Duplicate of #681, 693	Ringtown Dam No. 5

Table A3. Duplicate Entries Deleted During Screening—Continued

Source	Lake or Reservoir ID Number and Name		County ID Number and Name		Latitude	Longitude	Quad	USGS Quad
DDB	683	Mahanoy Township Dam No. 2	54	Schuylkill	40-50-16	76-08-33	1236	Shenandoah
DDB	682	Pole Run No. 4	54	Schuylkill	40-50-16	76-08-33	1236	Shenandoah
DDB	711	Beavertown Mun Wtr Sys Beavertown R	55	Snyder	40-44-57	77-09-38	1328	Beaver Springs
FBC	716	Middle Ck Lk	55	Snyder	40-46-00	76-52-24		
CCD	1155	Ottens Marsh (Hutton) (a.k.a. Lake John)	57	Sullivan	42-25-42	76-16-18		Lopez
CCD	1149	Lake Irene	57	Sullivan	41-25-38	76-16-57		Lopez
DDB	761	Pa Am W C Northeast D Montrose Lake	58	Susquehanna	41-50-35	75-51-27	439	Montrose East
DDB	775	Pa Am W C Northeast D Comfort Lake	58	Susquehanna	41-55-02	75-32-24	341	Susquehanna
PBB	988	Nick Pond	58	Susquehanna	41-41-47	76-01-45	537	Auburn Center
CCD		Stump Pond Dam	58	Susquehanna	41-51-07	75-40-00		Harford
DDB	797	Wellsboro Water Dept Res #1	59	Tioga	41-44-00	77-17-27	527	Antrim
DDB	800	Wellsboro Wtr Dept Hamilton Lake	59	Tioga	41-44-25	77-15-55	527	Antrim
DDB	792	Dam No.2	59	Tioga	41-40-24	77-04-11	529	Blossburg
DDB	805	Mansfield M Wtr A Webster&Ingalls R	59	Tioga	41-49-19	77-09-12	428	Crooked Creek
DDB	822	Pa American Wtr Co White Deer-Spruc	60	Union	41-01-45	76-59-36	1030	Allenwood
PBB	1066	Belmont Lake	64	Wayne	41-46-05	75-26-49	442	Orson
DHL	1121	Orson Pond	64	Wayne	41-48-48	75-26-48		Orson
DDB	825	Farview State Hospital #7 Pond	64	Wayne	41-35-05	75-27-09	642	Waymart

Public Access	Source	Sig	Digitized?	Visited	Comments	Lake or Reservoir Name
		Yes			Duplicate of #682, 686	Mahanoy Township Dam No. 2
		Yes			Duplicate of #683, 686	Pole Run No. 4
					D(t)<14 days	Beavertown Mun Wtr Sys Beavertown R
		NA			Duplicate of #715	Middle Ck Lk
					Breached 1992	
Yes	CCD				Sgl #66, dup of #980	Ottens Marsh (Hutton) (a.k.a Lake John)
Yes	CCD				Duplicate of #981	Lake Irene
					Duplicate of #763	Pa Am W C Northeast D Montrose Lake
					Duplicate of #1107	Pa Am W C Northeast D Comfort Lake
					Too small	Nick Pond
Yes	CCD		Yes			Stump Pond Dam
Yes					Duplicate of #795	Wellsboro Water Dept Res #1
Yes					Dup. of #798; d(t)<14!!!	Wellsboro Wtr Dept Hamilton Lake
					Duplicate of #791	Dam No.2
					Duplicate of #806	Mansfield M Wtr A Webster&Ingalls R
No	CCD	Yes	Yes		Duplicate of #823	Pa American Wtr Co White Deer-Spruc
Yes	DHL		Yes	May-95		Belmont Lake
Ukn	DHL	Yes		Y	Duplicate of #828	Orson Pond
					Duplicate of #824	Farview State Hospital #7 Pond

APPENDIX B

CITIZEN GROUPS AND ORGANIZATIONS IN THE SUSQUEHANNA RIVER BASIN

BASINWIDE ORGANIZATIONS
(listed in alphabetical order)

Alliance for Acid Rain Monitoring
Dr. Candie Wilderman, Coordinator (717) 245–1573
Dickinson College
Carlisle, PA 17013
(A network of citizen monitors that measures pH and alkalinity in Pennsylvania streams and lakes.)

Alliance for the Chesapeake Bay
225 Pine St.
Harrisburg, PA 17101

Chesapeake Bay Commission
Thomas W. Beaudy
234 State St.
Harrisburg, PA 17101

Chesapeake Bay Foundation
Jan Jarrett
Grassroots Staff
214 State Street
Harrisburg, PA 17101

Citizen Action of Pennsylvania
Jeff Blum, Executive Director
100 North 17th St., 10th Floor
Philadelphia, PA 19103

Ducks Unlimited
Glenn Leitzel
595 East Maple St.
Dallastown, PA 17313

Federated Garden Clubs of Pennsylvania
Sue Daugherty
131 Old Ford Rd.
Camp Hill, PA 17011

Homebuilders Association of Pennsylvania
David Sheppard
412 North 2nd St.
Harrisburg, PA 17105

Island Task Force
Lewis L. Butts (717) 238–5378
245 North 14th Street
Harrisburg, PA 17103
(Established in 1992 to protect, monitor, and preserve all living organisms that depend upon the richness of the water quality of the Susquehanna River to maintain a healthy existence.)

Keystone Chapter of the Soil and Water Conservation Society
Joel C. Myers President (717) 921–8775 (h); (717) 782–4458 (w)
800 Maplewood Ave.
Dauphin, PA 17018
(Established in 1946 to promote the wise use of our natural resources including conservation, education, and information transfers of technical information concerning our natural resources.)

League of Women Voters of PA
Marilyn Brill
215 Pine St.
Harrisburg, PA 17101

Mid-Atlantic Council of Watershed Association
Lorah Hopkins, President (215) 372–3916
2955 Edge Hill Road
Huntingdon Valley, PA 19006-5099
(Established in 1959 to share knowledge and experience for the mutual benefit of all watershed associations.)

National Audubon Society -- Mid-Atlantic Regional Office
Walter Pomeroy, Regional Vice-President
1104 Fernwood Ave., #300
Camp Hill, PA 17011

Natural Lands Trust
Michael G. Clarke, President (215) 353–5587
1031 Palmers Mill Road
Media, PA 19063
(Established in 1962 to preserve land in the Delaware Valley and other nearby areas of environmental concern by encouraging and supporting the land conservation actions of landowners, communities, government agencies, and non-profit organizations. Monitors 9,000 acres of conservation easements.)

The Nature Conservancy
Susan Cary Nicholas, Executive Director
1211 Chestnut St., Suite 1210
Philadelphia, PA 19107-4122

Pennsylvania Association of Conservation Districts Inc.
Mr. Kurt Leitholf
225 Pine St.
Harrisburg, PA 17101

Pennsylvania Environmental Council
Northeast Office
Annette Schultz, Director (717) 831–4997
Wilkes University
Wilkes-Barre, PA 18766
(Established in 1991 to advocate for and educate on Pennsylvania's environment. Community mapping project on 90 miles of the North Branch Susquehanna River.)

Pennsylvania Environmental Defense Fund
John Childe
P.O. Box 774
Mechanicsburg, PA 17055

Pennsylvania Federation of Sportsmen's Clubs, Inc.
Bonita Hoke, Executive Director (717) 232–3480
2426 North 2nd Street
Harrisburg, PA 17110
(Established in 1932 to serve as an aggressive advocate of Pennsylvania's environment and the sportsmen of the Commonwealth.)

Pennsylvania Land Trust Association
601 Orchard Place (215) 965–4397
Emmaus, PA 18049-1637

Pennsylvania Organization for Watersheds and Rivers (POWR)
Michael Linde, Interim President (215) 597–7946
P.O. Box 765
Harrisburg, PA 17108-0765
(Established in 1993 to protect, manage, and enhance the Commonwealth's rivers and watershed systems and to the empowerment of local organizations with the same commitments.)

Pennsylvania Trout Unlimited
Edward Bellis Chairman-Environmental Committee (814) 863–1154
R.D. 1, Box 131B
Spring Mills, PA 16875
(Established in the early 1960's to preserve and enhance fresh water habitat.)

Sierra Club
Wyona Coleman
P.O. Box 606
Harrisburg, PA 17108

Susquehanna River Wetlands Trust
Donald F. Wilson Director (717) 546–3073
229 Pepper Street
Muncy, PA 17756- 1608
(Established in 1985 to preserve and enhance wetlands: addressing special concern for water quality of the Susquehanna River Watershed and introducing wetland and aquatic vegetation in areas depleted of vegetation.)

Wildlands Conservancy
Tom Kerr, Executive Director (215) 965–4397
601 Orchid Place
Emmaus, PA 18049
(Established: 1973 to promote land and stream preservation; environmental education.)

COUNTY AGENCIES, ORGANIZATIONS, AND INDIVIDUALS

(listed by county)

ADAMS

Adams County Conservation District
Mr. Larry Martick
57 N. Fifth St.
Gettysburg, PA 17325

Lake Meade Property Owners Association
Dottie Yost
4 Forest Drive
East Berlin, PA 17316

Pennsylvania Water Environment Association
Lynn Hill, Executive Director
251 Baltimore St., 2nd Floor
Gettysburg, PA 17325

South Mountain Aubudon
Jack Locher
P.O. Box 3671
Gettysburg, PA 17325

BEDFORD

Bedford County Conservation District
Fairlawn Court, Suite 4
702 W. Pitt St.
Bedford, PA 15522

BERKS

Berks County Conservation District
P.O. Box 520, Ag Center
Leesport, PA 19533

Berks County Conservancy
Joseph E. Hoffman, Director of Environmental Management (215) 372–4992 960
Old Mill Road
Wyomissing, PA 19610
(Established in 1974 to promote agricultural, environmental, and historic preservation and improvement.)

BLAIR

Blair County Conservation District
1407 Blair St.
Hollidaysburg, PA 16648

BRADFORD

Bradford County Conservation District
Mr. Michael Lovegreen
R.R. #5, Box 5030-C
Stoll Nat. Res. Ctr.
Towanda, PA 18848

Bradford County Lake Management Organization
R.D. 5, Box 5030C
Towanda, PA 18848

Carantouan Greenway
James J. Daly, Project Coordinator
P.O. Box 441
Sayre, PA 18840

Endless Mountains Green Alliance
R.D. 3, Box 77A
Columbia Cross Roads, PA 16914

Bruce Cavanaugh
R.D. 1, Box 164
Gillett, PA 16925

CAMBRIA

Cambria County Conservation District
P.O. Box 187
Ebensburg, PA 15931

CAMERON

Cameron County Conservation District
2nd Flr. Courthouse
20 E. Fifth St.
Emporium, PA 15834

CENTRE

Centre County Conservation District
414 Holmes Ave., Suite 4
Bellefonte, PA 16823

Clearwater Conservancy
Julie Lalo
P.O. Box 163
State College, PA 16804

Spring Creek Watershed Coalition
George Hildenbrandt (814) 237–0053
414 Holmes Avenue, Suite 4
Bellefonte, PA 16823
(Established in 1989 for the enhancement and preservation of the high water quality of Spring Creek.)

West Branch Bioregional Project
118 Main Street
Millheim, PA 16854

Pennsylvania Cooperative Fish & Wildlife Reserve
Dr. Dean E. Arnold
679 Berkshire Drive
State College, PA 16803

Penn State University
Dr. Archie J. McDonald
103 Land & Water Research Bldg.
University Park, PA 16802

Penn State University—Stone Valley Recreation Area
Dale Roth
Bookstore Building
University Park, PA 16802

CHESTER

Chester County Conservation District
Gov't. Ser. Center, Suite 395
601 Westtown Road
West Chester, PA 19382-4519

Chester Water Authority
Patrick Fasano
P.O. 90
Nattingham, PA 19362

Soil & Water Conservation Society
Donald McCandless
160 East 7th St.
Chester, PA 19013

CLEARFIELD

Clearfield County Conservation District
650 Leonard St.
Clearfield, PA 16830

Little Clearfield Creek Watershed Association
George Gill Executive Vice-president (814) 236–0872
R.D. 1, Box 314
Olanta, PA 16863
(Established in 1980 to protect and enhance the water quality of Little Clearfield Creek.)

CLINTON

Clinton County Conservation District
2 State Rte. 150
Mill Hall, PA 17751-1631

COLUMBIA

Columbia County Conservation District
1127A Old Berwick Rd.
Bloomsburg, PA 17815

Fishing Creek Green Alliance
Gary Wamser
681 Park Street
Bloomsburg, PA 17815

Ecology III, Inc.
Theodore V. Jacobsen
R.R. 1, Box 1795
Berwick, PA 18603

CUMBERLAND

Cumberland County Conservation District
43 Brookwood Ave., Suite 4
Carlisle, PA 17013-9172

Conodoguinet Creek Watershed Association
Frederick O. Howard, President (717) 697–9182
225 Pine Street
Harrisburg, PA 17101
(Established in 1987 to take appropriate action on matters that affect the welfare of the creek, to protect the historic and natural character of the area, and to assist federal, state and local authorities in developing programs to protect and enhance the watershed.)

Yellow Breeches Creek Alliance
Wendy Plowman, Interim Executive Director (717) 258–6002
1186 Creek Road
Mechanicsburg, PA 17055
(Established in 1987 to preserve, protect, and defend the natural resources, water quality, wildlife, and environment of the Yellow Breeches Creek against encroachment, misuse, and destruction.)

DAUPHIN

Dauphin County Conservation District
1451 Peters Mtn. Rd.
Dauphin, PA 17018

Capital Area Greenbelt Association
Ellen Roane, President (717) 787–2105
P.O. Box 15405
Harrisburg, PA 17105-5405
(Established in 1990 to improve, enhance, maintain, and preserve the natural amenities within the Capital Area Greenbelt, now and forever; to undertake, complete and implement the provisions of a master plan to assure appropriate use and preservation of the aesthetics of the Greenbelt; and to heighten the general public's perception of the value of environmental and historic preservation.)

Friends of Wildwood Lake Nature Center
P.O. Box 1295
Harrisburg. PA 17108

Gannett Fleming, Inc.
Gene C. Koontz
P.O. Box 67100
Harrisburg, PA 17106

Tethys Consultants, Inc.
Joseph E. Gallagher
2001 North Front St., Bldg. 3,
Harrisburg, PA 17102

ELK

Elk County Conservation District
Courthouse
P.O. Box 448
Ridgway, PA 15853

FRANKLIN

Franklin County Conservation District
550 Cleveland Ave.
Chambersburg, PA 17201

FULTON

Fulton County Conservation District
216 N. Second St.
McConnellsburg, PA 17233

HUNTINGDON

Huntingdon County Conservation District
R.R. 1, Box 7C
Huntingdon, PA 16652-9603

INDIANA

Indiana County Conservation District
251 Rte. 286 North
Ag Service Ctr.
Indiana, PA 15701-9203

JUNIATA

Juniata County Conservation District
R.D. #3, Box 302
Mifflintown, PA 17059-9609

Juniata Valley Audubon
Maricia Bonita
P.O. Box 2378
Altoona, PA 16652

LACKAWANNA

Lackawanna County Conservation District
395 Bedford St.
Clarks Summit, PA 18411-1801

Lackawanna River Corridor Association
Bernard McGurl, Executive Director (717) 347-6311
P.O. Box 368
Scranton, PA 18501
(Established in 1987 to promote the restoration and stewardship of the Lackawanna River and related watershed resources.)

Pocono Northeast RC&D
Ron Phelps
301 West Grove St.
Clarkes Summit, PA 18411

Ecoscience, Inc.
R.R. 1, Box 4294
Moscow, PA 18444

William Karam Associates, Inc.
Jack Scheuer
1001 Lackawanna Trail
Clarkes Summit, PA 18411

Man, Levi & Nogi, Inc.
Stuart Moskovitz
P.O. Box S, Rt. 307
Clarkes Summit, PA 18411

James Brooks Randle
P.O. Box 627
Clarkes Summit, PA 18411

Robert Hollander
P.O. Box 127
Fleetville, PA 18420

LANCASTER

Lancaster County Conservation District
Mr. Donald Robinson
1383 Arcadia Rd.
Rm. 6, Farm & Home Ctr.
Lancaster, PA 17601

Conestoga Valley Association
Karen Howell
P.O. Box 24
Lancaster, PA 17603

Lancaster County Conservancy
Vicky Leonhart
P.O. Box 716
Lancaster, PA 17603

Lancaster Farmland Trust
(717) 293-0707
P.O. Box 1652
Lancaster, PA 17603

Lancaster Greens
Anne Goeke, Co-coordinator 717) 394–9110
P.O. Box 7413
Lancaster, PA 17602
(Established in 1989 to promote political and social transformation, recognizing the fact that social and ecological problems are linked, and actively seeking creative solutions to these problems.)

Millport Conservancy
Thomas Wohlsen (717) 626–0414
737 East Millport Road
Lititz, PA 17543

Save Our Creek
Peg Meyers (717) 859-3253
219 Colonial Drive
Akron, PA 17501

Sierra Club - Lancaster Group
George Dula
P.O. Box 254
Reinholds, PA 17569

Octoraro Watershed Association **LANCASTER/CHESTER**
Patrick Fasano (717) 529-2607
P.O. Box 98
Kirkwood, PA 17536
(Established in 1967 to preserve the Octoraro watershed and stream corridor, and promote sound farming practices and zoning ordinances, and education.)

LEBANON

Lebanon County Conservation District
2120 Cornwall Rd., Suite 5
Lebanon, PA 17042-9788

Quitapahilla Audubon
Fritz Heiman
P.O. Box 123
Palmyra, PA 17042

Citizens Coordinating for Clean Water- "A Swatara Watershed Alliance"
Jo Ellen Litz Co-chair (717) 274-1175
2501 Cumberland Street
Lebanon, PA 17042
(Established in 1988 to maintain clean water in general; to preserve the entire Swatara watershed; to promote recycling programs for waste; and to study new industrial waste management techniques.)

LUZERNE

Luzerne County Conservation District
Court House Annex
5 Water St.
Wilkes-Barre, PA 18711

Big Wapwallopen Creek Watershed Association
Jaquie Fine
133 Creek Road
Dorrance, PA 18201

Brookhill Association
P.O. Box A-J
Conyngham, PA 18219

Orchard East Condo
Robert W. Brown
Orchard East, Suite 138
Dallas, PA 18612

Spinnler Point Colony Association
George E. Rohde
207 North Broad St.
W. Hazleton, PA 18201

Greater Wyoming Valley Audubon
John Jakoby
P.O. Box 535
Dallas, PA 18612

Elf Atochem
John Miller
1475 D Mt. Hope Rd.
Fairfield, PA 17320

Senator Charles Lemmond, Jr.
701 Walnut St.
Kingston, PA 18704

Stanley S. Daviesen
R.D. #4, Box 624
Dallas, PA 18612

LYCOMING

Lycoming County Conservation District
240 W. 3rd St.
P.O. Box 68
Williamsport, PA 17703

Carl Steffon
(717) 435-0771
Box 217, HC31
Williamsport, PA 17701

Northcentral Pennsylvania Conservancy
Christopher Herrman, Executive Director (717) 323-6222
848 West Fourth Street
Williamsport, PA 17701
(Established in 1990 to protect lands of special natural value.)

Lycoming Audubon Society
JoAnn Pap LaRin
P.O. Box 4053
Williamsport, PA 17701

Trout Unlimited - Susquehanna Chapter
Richard W. Huggins
346 High Street
Williamsport, PA 17701-3202

MIFFLIN

Mifflin County Conservation District
20 Windmill Hill #4
Burnham, PA 17009

MONROE

Monroe County Conservation District
8050 Running Valley Rd.
Stroudsburg, PA 18360-0917

MONTOUR

Montour County Conservation District
112 Woodbine Lane, Suite 2
Danville, PA 17821

NORTHUMBERLAND

Northumberland County Conservation District
R.D. #3, Box 238-C
Sunbury, PA 17801

Roaring Creek Water Company
Rich Kotwica
204 E. Sunbury St.
Shamokin, PA 17872

PERRY

Perry County Conservation District
31 W. Main St.
P.O. Box 36
New Bloomfield, PA 17068

Sproch Fish Hatchery
John Sproch
309 Prospect Ave.
Duncannon, PA 17020

POTTER

Potter County Conservation District
334B Port Allegany Rd.
Coudersport, PA 16915-9501

SCHUYLKILL

Schuylkill County Conservation District
1206 Ag Center Drive
Pottsville, PA 17901

SNYDER

Snyder County Conservation District
403 West Market St.
Middleburg, PA 17842

SOMERSET

Somerset County Conservation District
1590 N. Center Ave., Suite 103
North Ridge Bldg.
Somerset, PA 15501-7000

SULLIVAN

Sullivan County Conservation District
R.R. 4181
Dushore, PA 18614

SUSQUEHANNA

Susquehanna County Conservation District
Ms. Lillian Theophanis
County Office Bldg.
31 Public Ave.
Montrose, PA 18801

Lake Wynonah Property Owners Association
Lee McCaull
R.D. 1
Auburn, PA 17922

Laurel Lake Civic Association
Walter Dean
R.D. 8, 605 Pin Oak Drive
Mountain Top, PA 18707

TIOGA

Tioga County Conservation District
5 East Ave.
Wellsboro, PA 16901

Pine Creek Headwaters Protection Group
Craig Devenport, President 717) 724-5097
P.O. Box 445
Wellsboro, PA 16901
(Established in 1988 to protect and preserve the Pine Creek watershed in North Central Pennsylvania; water monitoring on approximately 50 sites on Pine Creek and tributaries.)

Tiadaghton Audubon
Martha Copp
Wellsboro, PA 16901

UNION

Union County Conservation District
Mr. Bill Deitrick
60 Bull Run Crossing
Lewisburg, PA 17837

Seven Mountains Audubon
George Boone
P.O. Box 389
Lewisburg, PA 17837

WAYNE

Wayne County Conservation District
Mr. Robert Muller
Ag Service Ctr.
470 Sunrise Ave.
Honesdale, PA 18431

WYOMING

Wyoming County Conservation District
Ms. Kay Long
R.R. 3, Box 178B
Tunkhannock, PA 18657

Meshoppen Creek Task Force
Merry McKeon (717) 833–2634
RR #2 Box 54A
Meshoppen, PA 18630
(Established in 1988 to protect and preserve the Meshoppen Creek through the PA Scenic Rivers Program, educating the community on the importance of our area resource and providing ideas of planned growth to our community leaders to preserve our area resources.)

Rescue/Wyoming
Contact: Merry McKeon (717) 833–2634
RD #2, Box 54A
Meshoppen, PA 18630
(Established: 1988
Mission: An economically and environmentally safe policy of solid waste disposal: preservation of our streams, rivers, and wetlands. Volunteer/Monitoring Activities: Acid rain monitoring.)

Lake Carey Cottagers Association
Minturn Smith, President
R.D.1, Box 16
Tunkhannock, PA 18657

Lake Sheridan Cottagers Association
Joe Buckwalter
P.O. Box 61
Factoryville, PA 18419

Endless Mountains Environmental Services
JoAnn Brehm
R.R. 2, Box 4294
Mehoopany, PA 18629

YORK

York County Conservation District
118 Pleasant Acres Rd.
York, PA 17402

Codorus Monitoring Network
John Klunk (717) 225–3769
R.D. 4, Box 4624
Spring Grove, PA 17362
(Organized in 1991 to establish a base of water quality monitoring information for the Codorus Creek system in order to successfully advocate improvement in the condition of the resource.)

Muddy Creek Coalition
Dave Korner
3200 Crooked Wind Lane
York, PA 17402

York Chapter #67 - Izaak Walton League of America
R. Lee Irwin President (717) 227–0212
RD #3, Box 416
Dallastown, PA 17313
(Organized in 1992 as Angler's Club of York; affiliated with IWLA.)

York Audubon
Russell Ryan
P.O. Box 2432
York, PA 17405

APPENDIX C.
LAND COVER FOR SUBWATERSHEDS OF POTENTIALLY SIGNIFICANT PUBLICLY-OWNED LAKES

Table C1. Land Cover (Acres) For Subwatersheds of Potentially Significant, Publicly-Owned Lakes

Lake ID	Primary Name	WRDS #	HUC	Area (sq m)	Perimeter (m)	Acres Unknown	Acres Developed High Intsy
20	Shawnee Lk	15236	2050303	9,530,000	15,900	52.8	0.0
20	Shawnee Lk	15186	2050303	27,200,000	32,900	0.0	0.0
20	Shawnee Lk	15186	2050303	20,100,000	22,400	0.0	0.0
20	Shawnee Lk	15216	2050303	10,600,000	19,500	210.3	0.0
20	Shawnee Lk	15201	2050303	16,400,000	22,200	0.0	0.0
20	Shawnee Lk	15197	2050303	10,800,000	25,300	0.0	0.0
49	Canoe Creek Dm	16255	2050302	43,300,000	37,300	0.0	0.0
79	Sunfish Pd	30385	2050106	621,000	3,080	0.0	0.0
81	Unnamed PA-RC&D-102	29511	2050106	5,720,000	10,400	0.0	0.0
89	Mountain Lk	30698	2050106	666,000	3,340	0.0	0.0
94	Stephen Foster Dm	30718	2050106	26,100,000	33,900	0.0	0.0
94	Stephen Foster Dm	30722	2050106	4,100,000	8,260	0.0	0.0
95	Lk Ondawa	30878	2050105	2,750,000	6,520	0.0	0.0
122	Glendale Lk	26434	2050201	4,470,000	9,570	0.0	0.0
122	Glendale Lk	26443	2050201	8,260,000	17,700	0.0	0.0
122	Glendale Lk	26371	2050201	32,500,000	33,200	0.0	0.0
122	Glendale Lk	26434	2050201	2,850,000	7,990	0.0	0.0
122	Glendale Lk	26444	2050201	10,200,000	15,500	0.0	0.0
122	Glendale Lk	26443	2050201	254,000	2,500	0.0	0.0
122	Glendale Lk	26396	2050201	2,940,000	8,300	0.0	0.0
122	Glendale Lk	26371	2050201	7,620,000	15,000	0.0	0.0
122	Glendale Lk	26377	2050201	3,230,000	8,850	0.0	0.0
122	Glendale Lk	26396	2050201	15,800,000	19,000	0.0	0.0
122	Glendale Lk	26377	2050201	3,880,000	10,300	0.0	0.0
122	Glendale Lk	26377	2050201	16,500,000	22,700	0.0	0.0
128	George B Stevenson Dm	24066	2050202	18,300,000	55,900	0.0	0.0
128	George B Stevenson Dm	24135	2050202	10,100,000	15,800	0.0	0.0
128	George B Stevenson Dm	24150	2050202	763,000	4,430	0.0	0.0
128	George B Stevenson Dm	24149	2050202	2,740,000	7,430	0.0	0.0
128	George B Stevenson Dm	24132	2050202	3,710,000	8,230	0.0	0.0
128	George B Stevenson Dm	24128	2050202	7,690,000	12,800	0.0	0.0
128	George B Stevenson Dm	24118	2050202	6,430,000	15,100	0.0	0.0
128	George B Stevenson Dm	24120	2050202	3,630,000	9,080	0.0	0.0
128	George B Stevenson Dm	24127	2050202	1,540,000	5,910	0.0	0.0
128	George B Stevenson Dm	24109	2050202	802,000	3,720	0.0	0.0
128	George B Stevenson Dm	24108	2050202	9,870,000	16,100	0.0	0.0
128	George B Stevenson Dm	24121	2050202	8,080,000	13,300	0.0	0.0
128	George B Stevenson Dm	24119	2050202	637,000	3,750	0.0	0.0
128	George B Stevenson Dm	24103	2050202	5,660,000	11,600	0.0	0.0
128	George B Stevenson Dm	24115	2050202	5,150,000	9,380	0.0	0.0
128	George B Stevenson Dm	24099	2050202	3,510,000	8,670	0.0	0.0
128	George B Stevenson Dm	24101	2050202	4,000,000	8,380	0.0	0.0
128	George B Stevenson Dm	24100	2050202	9,390,000	13,600	0.0	0.0
128	George B Stevenson Dm	24096	2050202	7,250,000	12,600	0.0	0.0
134	Boy Scout Dm	12481	2050301	3,110,000	7,760	0.0	0.0
137	Colyer Lk	18377	2050301	21,700,000	27,800	0.0	0.0
147	Poe Valley Lk	18224	2050301	12,900,000	22,700	0.0	0.0
159	Cold Stream Dm	25831	2050201	7,920,000	13,100	0.0	0.0
159	Cold Stream Dm	25831	2050201	10,300,000	18,600	0.0	0.0

Acres Developed Low Intsy	Acres Herbaceous	Acres Woody	Acres Exposed	Acres Water	Acres Total	Lake ID
0.0	1,790.7	510.3	0.0	0.0	2,353.8	20
20.8	4,256.8	2,436.3	0.0	0.0	6,714.0	20
66.4	2,861.8	1,570.0	0.0	458.8	4,957.1	20
32.9	1,704.2	669.3	0.0	0.0	2,616.8	20
29.8	3,353.1	680.3	0.0	0.0	4,063.2	20
0.0	1,680.3	992.1	0.0	0.0	2,672.4	20
17.5	9,350.1	1,178.7	0.0	162.9	10,709.2	49
0.0	107.0	11.1	0.0	35.1	153.2	79
0.0	785.2	629.0	0.0	1.2	1,415.4	81
1.1	119.1	2.5	0.0	42.2	164.8	89
70.4	3,186.6	3,085.7	0.0	104.9	6,447.6	94
17.3	834.9	160.3	0.0	0.0	1,012.5	94
15.0	326.5	308.1	0.0	29.3	678.9	95
0.0	993.5	106.1	3.7	0.0	1,103.3	122
0.0	1,783.6	255.0	0.0	0.0	2,038.6	122
162.8	5,904.6	310.0	0.0	1,644.6	8,021.9	122
5.7	678.8	11.6	7.3	1.7	705.0	122
0.0	2,163.9	358.9	0.0	0.0	2,522.8	122
0.0	58.8	4.2	0.0	0.0	63.0	122
16.8	622.2	86.2	0.0	0.0	725.3	122
11.4	1,381.6	490.3	0.0	0.0	1,883.4	122
0.0	756.9	38.5	0.0	2.9	798.3	122
31.4	2,536.2	1,325.7	0.0	0.0	3,893.3	122
0.0	829.7	131.1	0.0	0.0	960.8	122
12.4	2,591.8	1,462.4	0.0	0.0	4,066.6	122
35.2	3,831.4	366.6	0.0	290.7	4,523.9	128
0.0	2,437.4	58.2	0.0	0.0	2,495.6	128
0.0	182.7	4.8	0.0	0.0	187.5	128
0.0	676.0	1.7	0.0	0.0	677.7	128
0.0	897.8	19.0	0.0	0.0	916.8	128
0.0	1,857.0	42.6	0.0	0.0	1,899.6	128
0.0	1,540.7	45.7	0.0	1.4	1,587.8	128
0.0	895.1	2.0	0.0	0.5	897.6	128
0.0	380.1	0.0	0.0	1.1	381.2	128
0.0	198.3	0.0	0.0	0.0	198.3	128
0.0	2,423.0	15.8	0.0	0.6	2,439.4	128
0.0	1,979.5	17.8	0.0	0.0	1,997.2	128
0.0	157.2	0.0	0.0	0.0	157.2	128
0.0	1,382.1	16.5	0.0	0.0	1,398.6	128
4.0	1,166.0	101.0	0.0	0.0	1,271.0	128
4.0	833.2	7.7	0.0	21.0	865.9	128
0.0	963.6	25.2	0.0	0.0	988.7	128
3.7	2,273.8	42.0	0.0	0.6	2,320.2	128
0.3	1,757.8	27.6	0.0	5.7	1,791.5	128
41.5	713.7	13.6	0.0	0.0	768.8	134
0.0	5,091.1	199.8	0.0	81.4	5,372.4	137
0.0	3,156.0	9.0	0.0	21.5	3,186.4	147
68.6	1,697.3	122.2	59.0	9.3	1,956.3	159
24.9	2,462.9	14.4	48.0	5.1	2,555.2	159

Table C1. Land Cover (Acres) For Subwatersheds of Potentially Significant, Publicly-Owned Lakes—Continued

Lake ID	Primary Name	WRDS #	HUC	Area (sq m)	Perimeter (m)	Acres Unknown	Acres Developed High Intsy
159	Cold Stream Dm	25834	2050201	9,750,000	16,900	0.0	0.0
159	Cold Stream Dm	25841	2050201	2,480,000	7,570	0.0	0.0
159	Cold Stream Dm	25841	2050201	7,270,000	15,300	0.0	0.0
159	Cold Stream Dm	25849	2050201	6,820,000	14,100	0.0	0.0
159	Cold Stream Dm	25841	2050201	718,000	3,570	0.0	0.0
159	Cold Stream Dm	25847	2050201	6,560,000	14,800	0.0	0.0
159	Cold Stream Dm	25849	2050201	2,880,000	7,490	0.0	0.0
165	Black Moshannon Lk	25703	2050201	17,700,000	26,400	0.0	8.8
165	Black Moshannon Lk	25740	2050201	3,930,000	8,270	0.0	0.0
165	Black Moshannon Lk	25742	2050201	7,620,000	11,200	0.0	0.0
165	Black Moshannon Lk	25746	2050201	4,510,000	10,600	0.0	0.0
165	Black Moshannon Lk	25703	2050201	5,980,000	10,300	0.0	0.0
178	Foster J Sayers Lk	22865	2050204	3,140,000	8,350	0.0	0.0
178	Foster J Sayers Lk	22897	2050204	1,010,000	4,420	0.0	0.0
178	Foster J Sayers Lk	22900	2050204	585,000	3,070	0.0	0.0
178	Foster J Sayers Lk	22897	2050204	3,210,000	11,000	0.0	0.0
178	Foster J Sayers Lk	22912	2050204	882,000	4,190	0.0	0.0
178	Foster J Sayers Lk	22901	2050204	510,000	2,900	0.0	0.0
178	Foster J Sayers Lk	22910	2050204	637,000	3,850	0.0	0.0
178	Foster J Sayers Lk	22909	2050204	305,000	2,520	0.0	0.0
178	Foster J Sayers Lk	22908	2050204	630,000	3,490	0.0	0.0
178	Foster J Sayers Lk	22412	2050204	69,400,000	75,200	0.0	7.4
178	Foster J Sayers Lk	22872	2050204	27,200,000	28,100	0.0	4.5
178	Foster J Sayers Lk	22905	2050204	11,600,000	24,400	0.0	0.0
178	Foster J Sayers Lk	22874	2050204	2,650,000	10,100	0.0	0.0
178	Foster J Sayers Lk	22921	2050204	5,790,000	13,000	0.0	0.0
178	Foster J Sayers Lk	22954	2050204	10,600,000	16,800	0.0	0.0
178	Foster J Sayers Lk	22928	2050204	43,900,000	36,400	0.0	0.0
197	Goss Run Dm	25883	2050201	1,990,000	5,910	0.0	0.0
199	Curwensville Res	18668	2050201	36,400,000	46,500	0.0	0.0
199	Curwensville Res	18668	2050201	6,420	693	0.0	0.0
199	Curwensville Res	26727	2050201	1,900,000	6,530	0.0	0.0
199	Curwensville Res	26731	2050201	2,100,000	7,490	0.0	0.0
199	Curwensville Res	26728	2050201	2,790,000	7,350	0.0	0.0
211	Parker Lk	24848	2050202	4,470,000	10,600	0.0	0.0
211	Parker Lk	24827	2050202	17,200,000	30,400	0.0	0.0
211	Parker Lk	24850	2050202	13,400,000	20,000	0.0	0.0
211	Parker Lk	24857	2050202	4,110,000	9,630	0.0	0.0
211	Parker Lk	24859	2050202	3,420,000	8,520	0.0	0.0
211	Parker Lk	24863	2050202	1,900,000	5,970	0.0	0.0
211	Parker Lk	24864	2050202	1,290,000	5,140	0.0	0.0
213	Shaggers Inn Waterfowl Dm	24787	2050202	966,000	4,200	0.0	0.0
244	Alvin R Bush Dm	23661	2050203	62,000,000	164,000	0.0	0.0
244	Alvin R Bush Dm	23685	2050203	1,390,000	5,220	0.0	0.0
244	Alvin R Bush Dm	23684	2050203	3,500,000	7,770	0.0	0.0
244	Alvin R Bush Dm	23682	2050203	563,000	3,610	0.0	0.0
244	Alvin R Bush Dm	23683	2050203	1,940,000	6,650	0.0	0.0
244	Alvin R Bush Dm	23681	2050203	2,950,000	7,590	0.0	0.0
244	Alvin R Bush Dm	23678	2050203	1,690,000	6,150	0.0	0.0

Acres Developed Low Intsy	Acres Herbaceous	Acres Woody	Acres Exposed	Acres Water	Acres Total	Lake ID
6.8	2,289.1	113.4	0.0	0.0	2,409.3	159
0.0	597.8	13.6	0.0	0.0	611.4	159
0.0	1,677.7	115.1	4.0	0.0	1,796.8	159
0.2	1,653.0	32.3	0.0	0.0	1,685.4	159
0.0	175.0	2.6	0.0	0.0	177.6	159
2.6	1,550.4	68.9	0.0	0.0	1,621.9	159
2.6	689.9	18.5	0.0	0.0	711.0	159
27.0	3,944.1	162.5	0.0	219.9	4,362.3	165
0.0	970.7	0.0	0.0	0.0	970.7	165
0.0	1,872.7	10.7	0.0	0.0	1,883.4	165
0.0	1,115.1	0.0	0.0	0.0	1,115.1	165
0.0	1,476.4	0.8	0.0	0.0	1,477.2	165
1.5	600.6	172.8	0.0	0.0	775.0	178
0.0	230.1	19.9	0.0	0.0	250.0	178
0.0	138.5	5.3	0.0	0.0	143.8	178
3.4	651.0	139.5	0.0	0.0	793.8	178
0.2	217.8	0.0	0.0	0.0	217.9	178
0.0	124.9	1.2	0.0	0.0	126.2	178
0.6	140.8	16.7	0.0	0.0	158.1	178
0.6	61.8	13.1	0.0	0.0	75.5	178
0.0	155.5	0.0	0.0	0.0	155.5	178
697.5	9,859.8	4,663.5	0.0	1,929.6	17,157.7	178
140.2	3,146.4	3,438.8	0.0	0.0	6,729.9	178
19.6	2,656.1	200.3	0.0	0.0	2,876.0	178
0.0	625.0	30.0	0.0	0.0	655.0	178
29.3	1,331.4	70.9	0.0	0.0	1,431.7	178
230.4	2,106.3	273.7	0.0	0.0	2,610.3	178
151.5	4,123.4	6,564.0	0.0	0.0	10,838.9	178
14.8	314.7	142.7	19.5	0.0	491.7	197
233.5	7,245.4	396.6	209.9	919.2	9,004.6	199
0.0	0.8	0.8	0.0	0.0	1.5	199
7.7	358.6	103.2	0.0	1.5	471.0	199
2.3	439.7	74.0	2.9	0.0	518.9	199
4.8	578.4	104.7	0.0	1.1	689.0	199
2.2	1,059.2	42.8	0.0	0.0	1,104.1	211
7.3	4,067.2	144.6	0.0	27.5	4,246.5	211
0.0	2,963.9	337.0	0.0	0.0	3,300.9	211
0.0	1,009.9	5.4	0.0	0.0	1,015.3	211
15.6	827.8	0.5	0.0	0.0	843.9	211
0.0	463.8	4.6	0.0	0.0	468.4	211
0.0	235.8	82.0	0.0	0.0	317.8	211
0.0	206.9	6.3	24.7	0.0	238.0	213
19.8	13,680.5	1,165.3	0.0	456.1	15,321.5	244
0.0	337.9	5.1	0.0	0.0	343.0	244
0.0	845.3	19.3	0.0	0.0	864.6	244
0.0	110.0	29.0	0.0	0.0	139.0	244
0.0	473.2	5.4	0.0	0.0	478.6	244
0.0	697.1	19.5	0.0	13.4	730.0	244
0.0	392.3	23.6	0.0	1.1	417.0	244

Table C1. Land Cover (Acres) For Subwatersheds of Potentially Significant, Publicly-Owned Lakes—Continued

Lake ID	Primary Name	WRDS #	HUC	Area (sq m)	Perimeter (m)	Acres Unknown	Acres Developed High Intsy
244	Alvin R Bush Dm	23680	2050203	238,000	2,600	0.0	0.0
244	Alvin R Bush Dm	23679	2050203	1,110,000	4,590	0.0	0.0
250	Briar Creek Res	28085	2050107	13,500,000	22,400	0.0	0.0
264	Fuller Lk	63167	2050305	59,000	976	0.0	0.0
266	Laurel Lk	63178	2050305	5,090,000	9,950	0.0	0.0
266	Laurel Lk	63179	2050305	3,780,000	8,390	0.0	0.0
266	Laurel Lk	63181	2050305	10,300,000	20,900	0.0	0.0
266	Laurel Lk	63167	2050305	5,630,000	14,100	0.0	0.0
266	Laurel Lk	63167	2050305	25,700,000	31,200	0.0	0.0
266	Laurel Lk	63190	2050305	10,300,000	13,500	0.0	0.0
272	Childrens Lk	10121	2050305	8,520,000	13,100	0.0	7.6
280	Opossum Creek Dm	10303	2050305	12,900,000	17,500	0.0	0.0
283	Doubling Gap Lk	10385	2050305	8,260,000	14,100	0.0	0.0
319	Cowans Gap Lk	13182	2050304	13,600,000	20,100	0.0	0.0
321	Sinoquipe Lk	13144	2050304	12,500,000	24,800	0.0	0.0
321	Sinoquipe Lk	13149	2050304	2,420,000	8,270	0.0	0.0
326	Raystown Lk	13359	2050303	21,500,000	23,000	0.0	0.0
326	Raystown Lk	13542	2050303	64,300,000	61,700	0.0	0.0
326	Raystown Lk	13349	2050303	29,100,000	26,000	0.0	0.0
326	Raystown Lk	13421	2050303	52,000,000	36,300	0.0	0.0
326	Raystown Lk	13349	2050303	22,800,000	23,200	0.0	0.0
326	Raystown Lk	14770	2050303	88,700,000	102,000	3377.5	0.0
326	Raystown Lk	13421	2050303	1,100,000	4,870	0.0	0.0
326	Raystown Lk	14899	2050303	3,000,000	7,900	489.1	0.0
326	Raystown Lk	13349	2050303	12,400,000	17,000	0.0	0.0
326	Raystown Lk	13460	2050303	59,300,000	53,900	0.0	0.0
326	Raystown Lk	13464	2050303	5,560,000	12,100	0.0	0.0
326	Raystown Lk	13636	2050303	12,300,000	14,800	0.0	0.0
326	Raystown Lk	13636	2050303	6,410,000	13,700	0.0	0.0
326	Raystown Lk	13465	2050303	1,540,000	5,620	0.0	0.0
326	Raystown Lk	14893	2050303	871,000	3,800	200.5	0.0
326	Raystown Lk	13561	2050303	4,260,000	10,500	0.0	0.0
326	Raystown Lk	13545	2050303	3,470,000	8,950	0.0	0.0
326	Raystown Lk	13673	2050303	27,200,000	24,600	0.0	0.0
326	Raystown Lk	13557	2050303	1,220,000	5,920	0.0	0.0
326	Raystown Lk	14880	2050303	4,360,000	11,500	0.0	0.0
326	Raystown Lk	13673	2050303	3,750,000	8,490	0.0	0.0
326	Raystown Lk	14881	2050303	2,870,000	6,800	0.0	0.0
326	Raystown Lk	13349		28,600,000	37,100	0.0	0.0
326	Raystown Lk	13653	2050303	19,300,000	20,900	0.0	0.0
326	Raystown Lk	13653	2050303	1,160,000	5,250	0.0	0.0
326	Raystown Lk	14863	2050303	9,120,000	18,800	774.5	0.0
326	Raystown Lk	14857	2050303	4,350,000	12,100	0.0	0.0
326	Raystown Lk	13809	2050303	91,900,000	80,600	0.0	0.0
326	Raystown Lk	14856	2050303	2,890,000	7,260	0.0	0.0
326	Raystown Lk	13460	2050303	57,900,000	58,900	0.0	0.0
326	Raystown Lk	14788	2050303	29,700,000	34,900	0.0	0.0
326	Raystown Lk	14868	2050303	2,680,000	7,930	497.6	0.0
326	Raystown Lk	14871	2050303	1,100,000	4,600	174.4	0.0

Acres Developed Low Intsy	Acres Herbaceous	Acres Woody	Acres Exposed	Acres Water	Acres Total	Lake ID
0.0	43.4	14.5	0.0	0.8	58.7	244
0.0	272.9	0.6	0.0	0.0	273.5	244
4.5	1,854.5	1,426.9	0.0	45.9	3,331.7	250
0.0	9.1	0.0	0.0	5.3	14.4	264
0.0	1,229.7	29.8	0.0	0.0	1,259.5	266
0.0	929.3	0.0	0.0	3.2	932.5	266
0.0	2,499.5	39.1	0.0	0.0	2,538.5	266
1.1	1,364.2	0.0	0.0	25.8	1,391.0	266
4.8	6,069.8	278.9	0.0	0.0	6,353.5	266
0.0	2,226.6	317.7	0.0	0.0	2,544.2	266
337.3	95.6	1,658.4	0.0	5.4	2,104.2	272
0.0	1,536.1	1,588.0	0.0	61.8	3,185.8	280
0.0	1,975.6	65.3	0.0	0.0	2,040.9	283
2.2	3,315.7	2.8	0.0	46.8	3,367.4	319
0.2	2,655.1	415.6	0.0	12.4	3,083.2	321
0.0	504.6	92.7	0.0	0.0	597.2	321
18.7	4,322.2	504.4	0.0	455.8	5,301.0	326
14.5	10,995.4	4,868.7	22.7	0.0	15,901.3	326
1.9	4,561.1	44.8	0.0	2,591.2	7,198.9	326
13.1	8,979.6	3,311.2	0.0	534.7	12,838.6	326
42.6	3,447.0	145.2	0.0	1,989.2	5,623.9	326
223.3	11,839.1	6,477.7	2.8	0.0	21,920.3	326
0.0	171.4	27.6	0.0	71.4	270.4	326
0.0	156.4	95.6	0.0	0.0	741.2	326
6.6	1,935.6	50.2	0.0	1,066.3	3,058.7	326
0.0	11,509.5	2,913.4	0.8	223.5	14,647.1	326
0.0	1,364.9	8.8	0.0	0.0	1,373.7	326
0.0	2,117.2	913.2	0.0	0.0	3,030.4	326
10.2	1,345.8	183.3	0.0	45.1	1,584.4	326
0.0	382.2	0.0	0.0	0.0	382.2	326
0.0	14.4	0.0	0.0	0.0	214.8	326
0.0	899.5	153.5	0.0	0.0	1,053.0	326
0.0	664.9	191.0	0.0	0.0	855.9	326
32.9	5,628.0	1,065.0	0.0	0.0	6,725.9	326
0.0	256.5	46.2	0.0	0.0	302.7	326
6.6	955.8	114.6	0.0	0.0	1,077.1	326
7.9	842.3	10.7	0.0	65.9	926.8	326
0.0	689.4	21.2	0.0	0.0	710.6	326
126.2	4,963.7	614.1	0.0	1,348.6	7,052.5	326
0.0	4,167.1	612.2	0.0	0.0	4,779.3	326
0.8	224.6	15.6	0.0	46.0	286.9	326
0.0	1,474.4	5.4	0.0	0.0	2,254.4	326
23.5	1,013.0	38.3	0.0	0.0	1,074.7	326
275.4	11,714.8	10,696.1	0.0	22.4	22,708.6	326
1.9	707.6	3.9	0.0	0.0	713.4	326
57.0	12,193.5	1,631.2	428.6	4.8	14,315.1	326
23.5	4,212.7	3,098.4	0.0	0.0	7,334.5	326
0.0	163.4	0.0	0.0	0.0	661.0	326
0.0	97.1	0.0	0.0	0.0	271.5	326

Table C1. Land Cover (Acres) For Subwatersheds of Potentially Significant, Publicly-Owned Lakes—Continued

Lake ID	Primary Name	WRDS #	HUC	Area (sq m)	Perimeter (m)	Acres Unknown	Acres Developed High Intsy
326	Raystown Lk	13502	2050303	17,900,000	18,100	0.0	0.0
326	Raystown Lk	13940	2050303	34,600,000	31,800	0.0	0.0
326	Raystown Lk	14915	2050303	27,300,000	34,700	254.8	0.0
326	Raystown Lk	13349	2050303	13,800,000	17,600	0.0	0.0
326	Raystown Lk	13726	2050303	14,900,000	22,100	0.0	0.0
326	Raystown Lk	13988	2050303	19,000,000	23,900	0.0	0.0
326	Raystown Lk	13727	2050303	3,560,000	8,780	0.0	0.0
326	Raystown Lk	13719	2050303	5,260,000	10,700	0.0	0.0
326	Raystown Lk	14792	2050303	19,300,000	23,400	0.0	0.0
326	Raystown Lk	13722	2050303	3,240,000	10,400	0.0	0.0
326	Raystown Lk	14927	2050303	7,840,000	15,200	280.3	0.0
326	Raystown Lk	14937	2050303	9,310,000	14,200	634.0	0.0
326	Raystown Lk	13349	2050303	143,000,000	172,000	0.0	44.8
326	Raystown Lk	13055	2050304	22,900,000	32,200	0.0	0.0
326	Raystown Lk	13717	2050303	4,760,000	12,100	0.0	0.0
326	Raystown Lk	13844	2050303	18,500,000	24,800	0.0	0.0
326	Raystown Lk	13717	2050303	17,800,000	27,800	0.0	0.0
326	Raystown Lk	13609	2050304	5,570,000	12,600	0.0	0.0
326	Raystown Lk	13737	2050303	1,690,000	6,530	0.0	0.0
326	Raystown Lk	14937	2050303	14,200,000	22,100	0.0	0.0
326	Raystown Lk	13723	2050303	5,770,000	11,600	0.0	0.0
326	Raystown Lk	13856	2050303	1,750,000	6,270	0.0	0.0
326	Raystown Lk	13915	2050303	25,300,000	26,000	0.0	0.0
326	Raystown Lk	13773	2050303	13,400,000	20,500	0.0	0.0
326	Raystown Lk	14948	2050303	3,720,000	10,100	217.0	0.0
326	Raystown Lk	13064	2050304	4,620,000	10,500	0.0	0.0
326	Raystown Lk	13794	2050303	7,330,000	14,600	0.0	0.0
326	Raystown Lk	14586	2050303	110,000,000	122,000	971.1	2.6
326	Raystown Lk	13791	2050303	23,500,000	34,300	0.0	0.0
326	Raystown Lk	13859	2050303	49,500,000	36,800	0.0	0.0
326	Raystown Lk	13785	2050303	4,630,000	10,100	0.0	0.0
326	Raystown Lk	99003	2050303	7,620,000	12,400	0.0	0.0
326	Raystown Lk	13806	2050303	2,950,000	8,530	0.0	0.0
326	Raystown Lk	14907	2050303	8,690,000	13,600	0.0	0.0
326	Raystown Lk	14993	2050303	17,900,000	21,300	779.9	0.0
326	Raystown Lk	13803	2050303	4,440,000	10,800	0.0	0.0
326	Raystown Lk	14686	2050303	28,100,000	25,200	0.0	0.0
326	Raystown Lk	14031	2050303	11,900,000	20,900	0.0	0.0
326	Raystown Lk	14030	2050303	15,900,000	23,500	0.0	0.0
326	Raystown Lk	14030	2050303	521,000	3,760	0.0	0.0
326	Raystown Lk	14725	2050303	36,100,000	31,100	0.0	0.0
326	Raystown Lk	14625	2050303	22,400,000	23,800	0.0	0.0
326	Raystown Lk	14070	2050303	28,700,000	32,700	0.0	0.0
326	Raystown Lk	14044	2050303	5,570,000	10,900	0.0	0.0
326	Raystown Lk	14053	2050303	21,100,000	22,700	0.0	0.0
326	Raystown Lk	14424	2050303	36,700,000	28,800	0.0	0.0
326	Raystown Lk	14602	2050303	22,200,000	22,600	0.0	0.0
326	Raystown Lk	14719	2050303	5,420,000	12,700	0.0	0.0
326	Raystown Lk	14675	2050303	7,290,000	14,100	0.0	0.0

Acres Developed Low Intsy	Acres Herbaceous	Acres Woody	Acres Exposed	Acres Water	Acres Total	Lake ID
0.0	2,802.9	1,627.8	0.0	0.0	4,430.7	326
24.1	3,838.5	4,669.2	0.0	12.0	8,543.8	326
5.6	4,282.2	2,211.4	1.4	0.0	6,755.4	326
27.0	2,907.6	472.9	0.0	0.0	3,407.6	326
0.0	3,347.5	329.9	0.0	0.0	3,677.4	326
1.2	2,457.3	2,223.6	0.0	3.4	4,685.6	326
0.0	788.7	90.2	0.0	0.0	878.9	326
0.0	1,231.4	72.4	0.0	0.0	1,303.8	326
94.7	2,905.6	1,769.4	4.2	0.0	4,773.9	326
0.0	714.9	83.9	0.0	0.0	798.8	326
0.0	1,367.7	288.5	0.0	0.0	1,936.5	326
0.0	1,549.7	116.3	0.0	0.0	2,299.9	326
1827.2	23,823.8	8,206.6	53.6	1,428.3	35,384.3	326
0.0	4,755.8	901.6	0.0	0.0	5,657.5	326
13.3	1,023.6	140.4	0.0	0.0	1,177.3	326
0.0	4,558.6	16.7	0.0	0.0	4,575.3	326
34.6	3,970.2	397.1	0.0	0.0	4,401.9	326
0.0	1,157.7	217.8	0.0	0.0	1,375.4	326
0.0	376.2	42.0	0.0	0.0	418.2	326
0.0	1,946.3	1,571.4	0.0	0.0	3,517.7	326
3.2	1,266.3	156.3	0.0	0.0	1,425.8	326
0.0	432.1	0.0	0.0	0.0	432.1	326
29.7	1,252.5	4,963.2	0.0	0.0	6,245.4	326
0.6	2,709.5	609.1	0.0	0.0	3,319.2	326
0.0	653.0	49.6	0.0	0.0	919.5	326
0.0	1,096.4	45.6	0.0	0.0	1,141.9	326
0.0	1,551.5	261.6	0.0	0.0	1,813.1	326
171.1	13,063.6	12,881.7	0.0	74.7	27,165.0	326
22.7	5,507.5	272.1	0.8	0.0	5,803.1	326
13.0	6,971.1	5,241.4	0.0	0.0	12,225.5	326
0.5	1,113.7	30.4	0.0	0.2	1,144.7	326
9.6	1,511.7	361.5	0.0	0.0	1,882.8	326
0.0	596.9	65.5	65.9	0.0	728.3	326
0.0	925.7	1,221.9	0.0	0.0	2,147.6	326
0.0	3,105.3	549.2	0.0	0.0	4,434.4	326
0.0	1,009.3	64.2	24.4	0.0	1,097.9	326
106.9	4,392.0	2,458.2	0.0	0.6	6,957.7	326
0.0	2,769.6	154.3	22.4	0.0	2,946.3	326
0.0	3,648.8	112.0	170.0	0.0	3,930.8	326
3.4	117.4	7.3	0.0	0.2	128.2	326
0.0	4,378.1	4,531.3	0.0	8.5	8,917.8	326
0.0	3,115.4	2,430.0	0.0	0.9	5,546.3	326
4.2	6,708.1	341.0	31.2	0.5	7,084.9	326
0.0	1,334.2	9.4	31.7	0.6	1,375.9	326
41.7	3,833.8	1,344.9	0.0	0.0	5,220.4	326
0.0	5,664.1	3,377.3	0.0	0.0	9,041.4	326
0.0	3,974.2	1,512.0	0.0	0.5	5,486.6	326
3.7	898.8	436.3	0.0	0.0	1,338.8	326
32.0	719.5	1,051.1	0.0	0.0	1,802.6	326

Table C1. Land Cover (Acres) For Subwatersheds of Potentially Significant, Publicly-Owned Lakes—Continued

Lake ID	Primary Name	WRDS #	HUC	Area (sq m)	Perimeter (m)	Acres Unknown	Acres Developed High Intsy
326	Raystown Lk	14586		19,400,000	22,100	0.0	6.8
326	Raystown Lk	14096	2050303	25,000,000	24,400	0.0	0.0
326	Raystown Lk	14086	2050303	14,600,000	17,800	0.0	0.0
326	Raystown Lk	13349	2050303	47,100,000	39,000	0.0	0.0
326	Raystown Lk	14134	2050303	35,500,000	29,600	0.0	0.0
326	Raystown Lk	15303	2050303	13,800,000	23,700	173.4	0.0
326	Raystown Lk	14412	2050303	3,710,000	8,640	0.0	0.0
326	Raystown Lk	15186	2050303	1,780,000	6,380	0.0	0.0
326	Raystown Lk	13349	2050303	81,800,000	83,400	631.2	0.0
326	Raystown Lk	14292	2050303	28,000,000	32,500	0.0	0.0
326	Raystown Lk	15054	2050303	12,100,000	17,600	0.0	0.0
326	Raystown Lk	15260	2050303	8,970,000	18,800	0.0	0.0
326	Raystown Lk	15016	2050303	47,700,000	41,400	0.0	2.9
326	Raystown Lk	14309	2050303	6,110,000	11,300	0.0	0.0
326	Raystown Lk	14342	2050303	12,900,000	20,100	0.0	0.0
326	Raystown Lk	14311	2050303	8,260,000	14,700	0.0	0.0
326	Raystown Lk	14462	2050303	94,500,000	62,500	0.0	0.0
326	Raystown Lk	15116	2050303	23,500,000	37,400	0.0	0.0
326	Raystown Lk	14363	2050303	29,400,000	46,300	0.0	0.0
326	Raystown Lk	14414	2050303	7,120,000	12,200	0.0	0.0
326	Raystown Lk	14178	2050303	58,400,000	69,500	0.0	0.0
326	Raystown Lk	15305	2050303	3,250,000	8,740	0.0	0.0
326	Raystown Lk	15140	2050303	3,840,000	10,700	0.0	0.0
326	Raystown Lk	15121	2050303	13,900,000	18,400	0.0	0.0
326	Raystown Lk	15315	2050303	4,480,000	11,400	0.0	0.0
326	Raystown Lk	15308	2050303	19,700,000	24,000	0.0	0.0
326	Raystown Lk	14303	2050303	3,290,000	14,500	0.0	0.0
326	Raystown Lk	14367	2050303	1,150,000	6,000	0.0	0.0
326	Raystown Lk	14185	2050303	60,100,000	45,900	0.0	0.0
326	Raystown Lk	14482	2050303	14,000,000	19,200	0.0	0.0
326	Raystown Lk	14308	2050303	1,220,000	6,080	0.0	0.0
326	Raystown Lk	14305	2050303	3,240,000	8,000	0.0	0.0
326	Raystown Lk	14374	2050303	9,420,000	25,600	0.0	0.0
326	Raystown Lk	14375	2050303	244,000	2,450	0.0	0.0
326	Raystown Lk	15154	2050303	6,980,000	13,700	0.0	0.0
326	Raystown Lk	14378	2050303	1,500,000	6,860	0.0	0.0
326	Raystown Lk	14293	2050303	3,150,000	10,300	0.0	0.0
326	Raystown Lk	14296	2050303	2,790,000	7,050	0.0	0.0
326	Raystown Lk	14326	2050303	2,050,000	7,890	0.0	0.0
326	Raystown Lk	15166	2050303	15,500,000	19,500	0.0	0.0
326	Raystown Lk	14396	2050303	2,560,000	8,330	0.0	0.0
326	Raystown Lk	14329	2050303	1,590,000	6,630	0.0	0.0
326	Raystown Lk	14385	2050303	1,810,000	7,280	0.0	0.0
326	Raystown Lk	14331	2050303	1,440,000	7,090	0.0	0.0
326	Raystown Lk	14245	2050303	11,800,000	23,500	0.0	0.0
326	Raystown Lk	14334	2050303	2,370,000	7,960	0.0	0.0
326	Raystown Lk	14335	2050303	2,190,000	7,870	0.0	0.0
326	Raystown Lk	14245	2050303	14,000,000	19,000	0.0	0.0
326	Raystown Lk	14337	2050303	1,500,000	6,430	0.0	0.0

Acres Developed Low Intsy	Acres Herbaceous	Acres Woody	Acres Exposed	Acres Water	Acres Total	Lake ID
55.1	266.6	271.7	0.0	66.9	667.0	326
0.0	5,302.9	883.2	0.0	0.5	6,186.6	326
73.8	2,948.0	592.7	0.0	0.0	3,614.5	326
216.1	8,973.1	2,426.1	0.0	19.9	11,635.2	326
282.0	6,115.2	2,310.7	55.1	0.0	8,763.1	326
15.9	3,109.7	112.9	0.0	0.0	3,411.9	326
117.5	595.4	203.1	0.0	0.0	916.0	326
5.6	420.4	12.8	0.0	0.5	439.2	326
378.2	14,292.2	4,900.5	0.0	10.8	20,213.0	326
39.7	5,478.1	1,403.1	0.0	0.0	6,920.9	326
109.8	2,195.8	693.9	0.0	0.3	2,999.8	326
10.2	1,469.0	737.8	0.0	0.0	2,217.0	326
180.5	9,663.8	1,947.3	0.0	0.0	11,794.6	326
5.1	1,504.9	0.3	0.0	0.0	1,510.3	326
33.8	1,832.1	1,328.0	0.0	0.0	3,194.0	326
0.0	2,036.8	3.4	0.0	0.0	2,040.2	326
28.7	15,097.1	8,074.9	133.6	17.9	23,352.3	326
46.5	4,269.0	1,495.0	0.0	0.0	5,810.5	326
48.6	5,772.4	1,432.3	0.0	5.3	7,258.5	326
17.3	1,460.2	281.5	0.0	0.2	1,759.2	326
242.3	9,578.2	4,479.2	39.5	90.5	14,429.8	326
0.0	786.9	16.8	0.0	0.0	803.7	326
0.2	376.4	574.4	0.0	0.0	950.9	326
0.0	2,735.4	695.9	0.0	0.0	3,431.4	326
98.7	895.9	111.5	0.0	0.0	1,106.1	326
49.1	4,239.1	585.9	6.5	0.0	4,880.6	326
0.0	703.8	109.7	0.0	0.0	813.4	326
0.0	149.8	134.7	0.0	0.0	284.5	326
0.0	8,200.6	6,634.0	0.0	5.4	14,840.0	326
0.0	1,878.3	1,561.5	0.0	16.2	3,456.1	326
0.0	296.2	4.5	0.0	0.0	300.7	326
0.0	637.2	163.9	0.0	0.0	801.1	326
0.0	1,945.2	380.8	0.0	0.0	2,326.0	326
0.0	60.2	0.5	0.0	0.0	60.7	326
3.2	1,186.3	537.1	0.0	0.0	1,726.6	326
0.0	351.0	20.8	0.0	0.0	371.9	326
0.0	601.9	177.5	0.0	0.0	779.3	326
0.0	690.5	0.0	0.0	0.0	690.5	326
3.4	399.4	104.4	0.0	0.0	507.2	326
0.0	3,241.1	580.1	0.0	0.0	3,821.2	326
0.0	630.1	2.8	0.0	0.0	632.9	326
0.0	391.5	3.1	0.0	0.0	394.6	326
0.0	236.3	211.3	0.0	0.0	447.6	326
6.9	309.2	39.2	0.0	0.0	355.4	326
0.0	1,313.1	1,611.6	0.0	0.0	2,924.6	326
2.3	553.2	30.0	0.0	0.0	585.5	326
13.4	467.5	61.6	0.0	0.0	542.5	326
0.0	1,970.8	1,489.3	0.0	0.0	3,460.1	326
12.2	311.2	46.9	0.0	0.0	370.3	326

Table C1. Land Cover (Acres) For Subwatersheds of Potentially Significant, Publicly-Owned Lakes—Continued

Lake ID	Primary Name	WRDS #	HUC	Area (sq m)	Perimeter (m)	Acres Unknown	Acres Developed High Intsy
326	Raystown Lk	14241	2050303	8,880,000	20,600	0.0	0.0
326	Raystown Lk	14339	2050303	2,330,000	6,610	0.0	0.0
338	Greenwood Lk	15411	2050302	15,500,000	26,000	0.0	0.0
338	Greenwood Lk	99005	2050302	1,030,000	5,100	0.0	0.0
340	Shaver Creek Dm	15575	2050302	19,400,000	27,800	0.0	0.0
341	Whipple Lk	15451	2050302	21,200,000	28,300	0.0	0.0
341	Whipple Lk	15468	2050302	8,420,000	14,100	0.0	0.0
363	Pa. G&W Stark Res	28387	2050107	2,640,000	7,390	0.0	0.0
367	Pa. G&W Elmhurst Res	28464	2050107	2,630,000	9,090	0.0	0.0
367	Pa. G&W Elmhurst Res	28467	2050107	6,600,000	13,300	14.1	0.0
367	Pa. G&W Elmhurst Res	28452	2050107	26,300,000	38,400	0.0	11.4
367	Pa. G&W Elmhurst Res	28481	2050107	5,840,000	10,900	0.0	0.5
367	Pa. G&W Elmhurst Res	28476	2050107	8,390,000	13,700	0.0	13.7
367	Pa. G&W Elmhurst Res	28475	2050107	5,700,000	12,100	0.0	9.3
370	Pa. G&W Curtis Res	28464	2050107	5,720,000	10,000	179.5	0.0
380	Pa. G&W Dunmore Res #1	28453	2050107	7,200,000	12,200	0.0	0.0
399	Pa. G&W Summit Lk	28529	2050107	2,970,000	8,860	0.0	3.7
404	Ford Lk	28676	2050106	2,790,000	7,260	0.0	0.0
412	Pa. G&W Chapman Lk	28799	2050106	1,520,000	5,200	0.0	0.0
415	Lk Lackawanna	28799	2050106	42,900,000	41,100	0.0	0.0
415	Lk Lackawanna	28799	2050106	27,800,000	36,900	0.0	0.0
415	Lk Lackawanna	28799	2050106	31,400,000	32,000	0.0	0.0
415	Lk Lackawanna	28861	2050106	16,000,000	22,400	0.0	0.0
419	Pa. G&W Carbondale Res #4	28591	2050107	4,240,000	10,100	96.2	0.0
423	Merli-Sarnoski Park Lk	28580	2050107	709,000	3,400	0.0	0.0
427	Newton Lk	29051	2050106	2,570,000	7,010	0.0	0.0
430	Octoraro Lk	7133	2050306	15,100,000	19,200	1764.3	4.6
430	Octoraro Lk	7150	2050306	7,050,000	12,700	0.0	5.1
430	Octoraro Lk	7143	2050306	12,700,000	15,500	0.0	3.2
430	Octoraro Lk	7144	2050306	10,700,000	19,900	0.0	6.6
430	Octoraro Lk	7066	2050306	12,000,000	20,200	0.0	0.0
430	Octoraro Lk	7131	2050306	9,620,000	19,300	1740.8	0.0
430	Octoraro Lk	7064	2050306	13,600,000	19,800	0.0	0.0
430	Octoraro Lk	7144	2050306	2,000,000	8,060	0.0	0.0
430	Octoraro Lk	7144	2050306	172,000	2,360	0.0	0.0
430	Octoraro Lk	7141	2050306	14,300,000	21,700	0.0	0.0
430	Octoraro Lk	7139	2050306	2,600,000	7,300	642.8	0.0
430	Octoraro Lk	7070	2050306	169,000	2,200	0.0	0.0
430	Octoraro Lk	7070	2050306	10,700,000	15,800	261.6	0.0
430	Octoraro Lk	7111	2050306	23,400,000	24,200	3254.4	0.0
430	Octoraro Lk	7056	2050306	15,600,000	18,700	0.0	0.0
430	Octoraro Lk	7127	2050306	4,640,000	10,400	0.0	0.0
430	Octoraro Lk	7033	2050306	11,100,000	17,500	0.0	0.0
430	Octoraro Lk	7108	2050306	9,270,000	17,100	0.0	0.0
430	Octoraro Lk	7070	2050306	21,600,000	35,800	0.0	0.0
430	Octoraro Lk	7125	2050306	2,970,000	8,670	0.0	0.0
430	Octoraro Lk	7104	2050306	10,800,000	17,900	0.0	0.0
430	Octoraro Lk	7056	2050306	4,640,000	10,000	0.0	0.0
430	Octoraro Lk	7086	2050306	31,200,000	35,800	0.0	6.9

Acres Developed Low Intsy	Acres Herbaceous	Acres Woody	Acres Exposed	Acres Water	Acres Total	Lake ID
0.0	1,330.7	863.5	0.0	0.0	2,194.1	326
48.2	380.5	147.5	0.0	0.0	576.2	326
0.0	3,785.2	41.2	0.0	8.8	3,835.2	338
0.0	255.0	0.0	0.0	0.0	255.0	338
0.0	4,571.3	145.0	0.0	70.6	4,786.9	340
0.0	4,922.2	290.7	0.0	20.5	5,233.4	341
0.0	2,059.8	19.9	0.0	0.0	2,079.7	341
33.1	559.5	46.9	2.6	8.8	651.0	363
4.8	416.5	228.9	0.0	0.0	650.2	367
7.6	1,114.0	488.8	0.0	6.2	1,630.6	367
455.3	4,838.0	973.6	0.0	226.9	6,505.2	367
61.2	1,011.4	369.7	0.0	0.0	1,442.8	367
136.4	1,370.0	545.9	3.4	5.6	2,075.1	367
53.1	1,104.6	228.0	0.0	13.0	1,407.9	367
13.6	946.9	195.1	0.0	79.5	1,414.5	370
5.7	1,720.6	33.7	0.0	19.9	1,779.9	380
20.7	281.2	375.4	0.0	53.3	734.4	399
0.2	411.4	206.5	4.0	66.1	688.2	404
51.1	110.6	101.9	0.0	112.4	376.1	412
305.6	5,857.0	4,269.0	2.5	158.9	10,593.1	415
98.8	3,691.7	2,708.1	0.0	371.1	6,869.8	415
210.3	4,339.5	3,178.5	0.0	38.9	7,767.3	415
239.1	1,942.7	1,740.1	0.0	28.1	3,950.0	415
45.4	815.8	11.0	0.0	78.1	1,046.5	419
4.2	141.8	0.8	0.0	28.0	174.7	423
38.9	287.3	146.6	0.0	160.8	633.5	427
132.8	451.4	1,381.6	0.0	0.0	3,734.8	430
165.4	488.5	1,083.2	0.0	0.0	1,742.2	430
201.1	487.6	2,433.5	0.0	0.0	3,125.4	430
63.6	371.0	2,205.3	0.0	0.0	2,646.5	430
28.4	220.5	2,717.7	0.0	0.0	2,966.6	430
20.1	217.3	398.0	0.0	0.0	2,376.2	430
20.8	234.7	3,113.2	0.0	1.5	3,370.3	430
74.4	238.9	181.3	0.0	0.0	494.7	430
6.5	33.5	2.6	0.0	0.0	42.6	430
93.9	590.1	2,851.7	0.0	0.0	3,535.8	430
0.0	0.0	0.0	0.0	0.0	642.8	430
3.4	37.8	0.6	0.0	0.0	41.9	430
3.7	1,251.4	1,139.9	0.0	0.0	2,656.7	430
3.6	663.6	1,869.8	0.0	0.0	5,791.4	430
82.2	886.0	2,894.1	0.0	0.0	3,862.2	430
5.3	448.5	693.4	0.0	0.0	1,147.2	430
5.1	924.6	1,820.7	0.0	1.5	2,752.0	430
4.0	515.8	1,770.0	0.0	0.0	2,289.9	430
32.6	1,444.0	3,858.8	0.0	0.0	5,335.4	430
0.0	248.8	484.3	0.0	0.0	733.1	430
0.0	417.0	2,260.5	0.0	0.0	2,677.5	430
4.8	345.3	796.9	0.0	0.0	1,147.0	430
91.6	1,990.3	5,618.2	0.0	9.0	7,716.0	430

Table C1. Land Cover (Acres) For Subwatersheds of Potentially Significant, Publicly-Owned Lakes—Continued

Lake ID	Primary Name	WRDS #	HUC	Area (sq m)	Perimeter (m)	Acres Unknown	Acres Developed High Intsy
430	Octoraro Lk	7081	2050306	16,400,000	20,900	0.0	0.0
430	Octoraro Lk	7050	2050306	15,100,000	19,700	0.0	0.0
430	Octoraro Lk	7033	2050306	21,400,000	27,500	0.0	0.0
430	Octoraro Lk	7095	2050306	6,780,000	11,600	0.0	0.0
430	Octoraro Lk	7045	2050306	3,220,000	10,400	0.0	0.0
430	Octoraro Lk	7033	2050306	15,900,000	25,800	0.0	0.0
430	Octoraro Lk	7034	2050306	6,150,000	12,800	0.0	0.0
430	Octoraro Lk	7070	2050306	8,980,000	17,800	0.0	0.0
430	Octoraro Lk	7033	2050306	5,700,000	12,300	0.0	0.0
430	Octoraro Lk	7071	2050306	13,500,000	16,600	0.0	0.0
430	Octoraro Lk	6947	2050306	299,000	2,290	0.0	0.0
435	Muddy Run Rec Res	7400	2050306	12,100,000	15,200	0.0	0.0
460	Speedwell Forge Lk	7664	2050306	52,900,000	50,600	714.6	5.3
460	Speedwell Forge Lk	7676	2050306	5,590,000	11,700	0.0	0.0
460	Speedwell Forge Lk	7675	2050306	2,450,000	7,520	0.0	0.0
462	Middle Creek Dm	7689	2050306	19,600,000	22,500	3.2	0.0
466	Mt Gretna Lk	9217	2050305	4,050,000	9,590	0.0	0.0
469	Rexmont #2	7664	2050306	1,500,000	5,140	0.0	0.0
471	Rexmont #1	7664	2050306	1,560,000	7,100	0.0	0.0
477	Stoevers Dm	9734	2050305	2,890,000	7,190	0.0	7.9
479	Ebenezer Union Canal Dm	9361	2050305	1,390,000	7,020	0.0	0.0
480	Memorial Lk	9361	2050305	5,320,000	9,560	0.0	3.6
481	Marquette Lk	9361	2050305	14,100,000	16,800	0.0	0.0
481	Marquette Lk	9361	2050305	804,000	4,180	0.0	0.0
491	Lk Irena	28109	2050107	3,550,000	7,940	0.0	66.4
495	Lk Francis	28102	2050107	5,600,000	10,600	0.0	0.0
498	Lily Lk	28258	2050107	6,180,000	13,000	0.0	0.0
524	Moon Lk	28300	2050107	1,300,000	5,340	0.0	0.0
526	Sylvan Lk	28300	2050107	4,040,000	9,780	0.0	0.0
527	Lk Silkworth	28300	2050107	1,340,000	4,770	0.0	0.0
543	Harris Pd	28311	2050107	1,270,000	4,490	0.0	0.0
548	Frances Slocum Lk	28361	2050107	7,230,000	12,600	0.0	3.9
548	Frances Slocum Lk	28361	2050107	8,410,000	16,700	0.0	0.0
549	Lk Jean	27845	2050107	7,750,000	14,200	0.0	6.2
550	Mountain Spring Lk	0	2050106	4,300,000	9,700	0.0	0.0
550	Mountain Spring Lk	28779	2050106	4,800,000	12,500	0.0	0.0
551	Harveys Lk	28317	2050107	10,800,000	18,700	0.0	0.0
551	Harveys Lk	28317	2050107	2,800,000	6,940	0.0	0.0
551	Harveys Lk	28317	2050107	1,430,000	5,170	0.0	0.0
551	Harveys Lk	28317	2050107	2,260,000	7,250	0.0	0.0
580	Little Pine Creek Dm	21260	2050205	6,900,000	14,800	0.0	0.0
580	Little Pine Creek Dm	21263	2050205	4,810,000	11,600	0.0	0.0
580	Little Pine Creek Dm	21262	2050205	5,060,000	12,200	0.0	0.0
580	Little Pine Creek Dm	21257	2050205	12,500,000	17,000	0.0	0.0
580	Little Pine Creek Dm	21261	2050205	4,070,000	10,100	0.0	0.0
580	Little Pine Creek Dm	21249	2050205	1,060,000	4,300	0.0	0.0
580	Little Pine Creek Dm	21270	2050205	3,470,000	8,780	0.0	0.0
580	Little Pine Creek Dm	21249	2050205	6,090,000	17,100	0.0	0.0
580	Little Pine Creek Dm	21217	2050205	6,050,000	12,700	0.0	0.0

Acres Developed Low Intsy	Acres Herbaceous	Acres Woody	Acres Exposed	Acres Water	Acres Total	Lake ID
30.6	557.4	3,467.6	0.0	0.0	4,055.6	430
28.7	652.0	3,057.5	0.0	0.0	3,738.2	430
34.7	1,550.7	3,691.4	0.0	0.0	5,276.9	430
8.5	334.7	1,331.1	0.0	0.0	1,674.3	430
8.0	212.5	574.7	0.0	0.0	795.2	430
9.4	1,017.9	2,654.5	0.0	236.4	3,918.3	430
9.9	325.4	1,182.1	0.0	0.0	1,517.4	430
37.2	952.1	899.3	0.0	329.1	2,217.8	430
7.3	283.9	1,116.0	0.0	0.0	1,407.1	430
67.3	643.9	2,632.3	0.0	0.8	3,344.2	430
0.0	36.0	0.0	0.0	38.3	74.3	430
39.1	1,264.4	1,559.2	0.0	116.4	2,979.2	435
409.9	4,718.0	7,134.4	1.2	95.9	13,079.2	460
18.4	1,339.8	22.4	0.0	0.0	1,380.5	460
0.0	599.5	6.2	0.0	0.0	605.7	460
2.9	2,234.9	2,227.2	0.0	378.1	4,846.3	462
0.0	954.4	34.7	0.0	10.0	999.2	466
0.0	365.1	0.0	0.0	5.1	370.2	469
0.2	375.8	3.2	0.0	4.9	384.1	471
138.1	37.7	517.2	0.0	13.1	714.0	477
95.6	16.1	232.9	0.0	0.0	344.6	479
94.1	665.3	473.7	0.0	78.0	1,314.6	480
14.4	3,109.0	368.8	0.0	0.0	3,492.2	481
1.7	182.7	0.0	0.0	14.4	198.8	481
122.9	524.6	134.5	16.7	11.3	876.4	491
8.3	1,154.1	212.5	0.0	9.1	1,384.1	495
2.8	1,288.8	107.2	0.0	128.6	1,527.4	498
4.9	230.3	57.1	0.0	29.0	321.4	524
10.0	577.3	294.5	0.0	118.1	1,000.0	526
25.6	204.0	19.0	0.0	82.8	331.4	527
0.0	229.3	52.5	0.0	31.4	313.2	543
8.0	1,003.1	733.1	7.7	34.1	1,790.0	548
39.7	1,248.3	635.7	4.9	148.0	2,076.6	548
21.6	1,161.9	412.2	0.0	314.9	1,916.8	549
0.0	1,057.9	3.2	0.0	0.0	1,061.2	550
0.0	1,148.0	0.6	0.0	38.1	1,186.7	550
395.5	1,563.2	110.0	0.0	592.4	2,661.2	551
18.2	558.1	116.3	0.0	0.0	692.7	551
18.5	295.4	26.1	0.0	11.7	351.8	551
37.1	484.6	37.2	0.0	0.0	558.9	551
0.2	1,228.9	319.1	157.7	0.0	1,705.8	580
0.0	905.9	271.0	14.2	0.0	1,191.2	580
0.0	1,033.8	215.0	0.0	0.0	1,248.8	580
0.0	2,875.2	209.9	0.0	0.0	3,085.1	580
0.0	827.6	177.8	0.9	0.0	1,006.3	580
0.0	166.8	89.4	6.2	0.0	262.4	580
0.0	736.8	119.5	0.0	0.0	856.4	580
0.8	1,452.8	51.6	0.0	0.0	1,505.2	580
6.3	1,407.3	40.2	0.0	43.1	1,496.8	580

Table C1. Land Cover (Acres) For Subwatersheds of Potentially Significant, Publicly-Owned Lakes—Continued

Lake ID	Primary Name	WRDS #	HUC	Area (sq m)	Perimeter (m)	Acres Unknown	Acres Developed High Intsy
580	Little Pine Creek Dm	21254	2050205	5,190,000	16,000	0.0	0.0
580	Little Pine Creek Dm	21251	2050205	2,270,000	6,340	0.0	0.0
580	Little Pine Creek Dm	21256	2050205	2,170,000	6,630	0.0	0.0
580	Little Pine Creek Dm	21255	2050205	4,230,000	10,400	0.0	0.0
580	Little Pine Creek Dm	0	2050205	1,190,000	4,920	0.0	0.0
580	Little Pine Creek Dm	21252	2050205	4,730,000	11,200	0.0	0.0
580	Little Pine Creek Dm	21265	2050205	1,490,000	6,230	0.0	0.0
580	Little Pine Creek Dm	21249	2050205	631,000	3,740	0.0	0.0
580	Little Pine Creek Dm	21217	2050205	8,970,000	26,500	0.0	0.0
580	Little Pine Creek Dm	21268	2050205	2,880,000	6,770	0.0	0.0
580	Little Pine Creek Dm	21246	2050205	2,920,000	7,070	0.0	0.0
580	Little Pine Creek Dm	21267	2050205	450,000	3,060	0.0	0.0
580	Little Pine Creek Dm	21266	2050205	1,140,000	4,570	0.0	0.0
580	Little Pine Creek Dm	21248	2050205	5,180,000	11,400	0.0	0.0
580	Little Pine Creek Dm	21244	2050205	1,380,000	5,050	0.0	0.0
580	Little Pine Creek Dm	21240	2050205	4,710,000	10,400	0.0	0.0
580	Little Pine Creek Dm	21245	2050205	2,170,000	6,500	0.0	0.0
580	Little Pine Creek Dm	21243	2050205	2,390,000	7,410	0.0	0.0
581	Rose Valley Lk	19836	2050206	8,700,000	14,900	0.0	0.0
591	Laurel Creek Res	12462	2050304	14,200,000	20,600	0.0	0.0
594	Lk Chillisquaque	18873	2050206	14,300,000	17,900	0.0	0.0
600	Zerbe Twp R G C Pd	17639	2050301	5,650,000	10,600	0.0	4.3
626	Holman Lk (Little Buffalo Lk)	11466	2050304	27,500,000	36,800	0.0	0.0
626	Holman Lk (Little Buffalo Lk)	11484	2050304	7,210,000	15,600	0.0	0.0
642	Sweet Arrow Lk	10054	2050305	52,800,000	39,400	0.0	0.0
688	Park Place Dm #3	17687	2050301	704,000	3,340	119.8	0.0
702	Lofty Messer's Run	27605	2050107	3,330,000	8,260	819.8	0.0
718	C F Walker Lk	17889	2050301	33,000,000	32,400	0.0	0.0
718	C F Walker Lk	17907	2050301	14,900,000	21,500	0.0	0.0
724	Hunters Lk	0	2050206	3,190,000	8,250	0.0	0.0
726	Lopez Pd	20416	2050206	1,460,000	5,290	0.0	0.0
730	Shumans Lk	19804	2050206	9,460,000	20,000	0.0	0.0
730	Shumans Lk	20473	2050206	633,000	4,030	0.0	0.0
730	Shumans Lk	20471	2050206	3,860,000	8,990	0.0	0.0
731	Sones Pd	20344	2050206	1,220,000	4,920	0.0	0.0
734	Bear Wallow Pd	20063	2050206	2,080,000	5,850	0.0	0.0
744	Horton Lk Dm	29101	2050106	1,270,000	4,960	0.0	0.0
745	Tuscarora Lk	29465	2050106	2,660,000	7,210	0.0	0.0
756	Lower Alford Lk	28937	2050106	13,800,000	22,600	0.0	0.0
763	Lk Montrose	31820	2050101	2,170,000	7,270	0.0	0.0
773	Star Lk Dm	32133	2050101	2,410,000	6,480	0.0	0.0
786	Quaker Lk	31811	2050101	3,670,000	10,600	0.0	0.0
795	Lk Nessmuk	21923	2050205	4,360,000	10,800	0.0	0.0
798	Hamilton Lk	21915	2050205	21,800,000	24,600	0.0	0.0
803	Hills Creek Lk	31209	2050104	9,380,000	15,000	0.0	0.0
809	Beechwood Lk	0	2050104	5,950,000	10,900	0.0	0.0
809	Beechwood Lk	0	2050104	2,890,000	7,930	0.0	0.0
810	Hammond Lk	31189	2050104	32,400,000	40,300	0.0	0.0
810	Hammond Lk	31197	2050104	7,650,000	13,000	0.0	0.0

Acres Developed Low Intsy	Acres Herbaceous	Acres Woody	Acres Exposed	Acres Water	Acres Total	Lake ID
0.0	1,186.9	95.4	0.0	0.0	1,282.3	580
0.0	476.0	86.0	0.0	0.0	562.0	580
0.0	478.9	56.5	0.0	0.0	535.4	580
0.0	830.0	213.4	0.0	0.0	1,043.4	580
0.0	293.0	0.0	0.0	0.0	293.0	580
0.0	1,103.0	66.1	0.0	0.0	1,169.1	580
0.0	354.6	13.1	0.0	0.3	368.0	580
2.2	127.7	26.9	0.0	0.0	156.8	580
13.7	1,679.7	376.8	0.0	146.7	2,217.0	580
0.0	710.3	0.0	0.0	0.0	710.3	580
0.0	701.8	20.7	0.0	0.0	722.5	580
0.0	104.9	6.6	0.0	0.0	111.5	580
0.0	278.0	2.3	0.0	0.0	280.3	580
0.0	1,200.9	75.7	0.0	1.1	1,277.7	580
0.0	341.3	0.8	0.0	0.0	342.1	580
2.8	1,156.4	4.3	0.0	0.0	1,163.6	580
0.0	508.1	28.1	0.0	0.3	536.5	580
0.0	590.3	0.0	0.0	0.2	590.4	580
0.0	1,204.6	529.7	0.0	414.2	2,148.6	581
62.5	3,364.5	18.1	0.0	70.1	3,515.2	591
20.8	1,181.6	2,150.7	1.2	167.6	3,522.0	594
110.9	1,242.2	38.5	0.0	0.0	1,395.8	600
0.0	4,039.5	2,647.9	0.0	104.7	6,792.1	626
0.0	852.4	928.5	0.0	0.0	1,780.8	626
218.2	6,267.8	6,480.5	0.0	69.3	13,035.8	642
0.0	54.5	0.0	0.0	0.0	174.4	688
0.0	0.5	0.0	0.0	0.0	820.2	702
2.3	4,013.3	3,905.5	0.0	241.5	8,162.6	718
0.0	2,809.7	851.7	0.0	26.9	3,688.3	718
4.3	650.7	19.0	0.0	113.4	787.3	724
0.0	249.7	95.9	0.0	14.1	359.7	726
0.0	1,914.1	383.5	0.0	39.2	2,336.8	730
0.0	137.0	18.4	0.0	0.0	155.4	730
0.0	861.6	93.0	0.0	0.0	954.6	730
0.0	257.1	32.9	0.0	13.0	303.0	731
0.0	417.0	76.1	0.0	21.9	515.1	734
0.0	167.9	106.4	0.0	39.7	314.0	744
0.0	413.0	190.0	0.0	54.1	657.0	745
20.7	2,434.0	860.5	0.0	84.2	3,399.4	756
138.1	184.7	160.0	0.0	53.1	535.9	763
10.0	314.1	197.5	0.0	72.9	594.6	773
35.8	449.4	280.9	0.0	138.8	905.0	786
27.0	435.8	557.4	0.0	58.8	1,079.1	795
53.4	3,118.9	2,149.7	0.0	58.2	5,380.2	798
31.8	1,579.2	541.8	0.0	167.1	2,319.8	803
48.8	768.3	570.8	0.0	81.2	1,469.2	809
20.5	305.6	389.2	0.0	0.0	715.4	809
290.3	5,638.8	1,462.7	0.0	617.8	8,009.6	810
27.5	1,752.1	36.8	0.0	74.4	1,890.8	810

Table C1. Land Cover (Acres) For Subwatersheds of Potentially Significant, Publicly-Owned Lakes—Continued

Lake ID	Primary Name	WRDS #	HUC	Area (sq m)	Perimeter (m)	Acres Unknown	Acres Developed High Intsy
810	Hammond Lk	31202	2050104	8,940,000	18,000	0.0	0.0
810	Hammond Lk	31203	2050104	2,550,000	6,890	0.0	0.0
813	Cowanesque Res	31003	2050104	4,950,000	11,000	0.0	0.0
813	Cowanesque Res	31006	2050104	3,380,000	8,890	0.0	0.0
813	Cowanesque Res	30995	2050104	8,670,000	19,700	0.0	0.0
813	Cowanesque Res	30995	2050104	7,430,000	20,400	0.0	0.0
813	Cowanesque Res	30996	2050104	10,200,000	15,200	0.0	0.0
813	Cowanesque Res	31000	2050104	8,340,000	15,800	0.0	0.0
813	Cowanesque Res	31001	2050104	5,160,000	10,800	0.0	0.0
815	Eldridge Pond Dam	0	2050104	730,000	3,190	0.0	0.0
833	Lk Winola	28681	2050106	4,190,000	9,350	0.0	0.0
843	Lk Carey	28797	2050106	6,210,000	14,000	0.0	0.0
843	Lk Carey	28788	2050106	6,770,000	13,500	0.0	0.0
845	Stevens Lk Dam	28788	2050106	4,080,000	8,250	0.0	0.0
849	Sheppard Myers Res	8813	2050306	14,900,000	17,800	0.0	0.0
852	Long Arm Res	8912	2050306	14,400,000	19,700	0.0	0.0
860	Lk Marburg	8233	2050306	25,800,000	38,400	0.0	0.0
860	Lk Marburg	8235	2050306	25,600,000	26,500	0.0	0.0
860	Lk Marburg	8250	2050306	8,710,000	14,800	0.0	0.0
869	Lk Williams	8097	2050306	3,860,000	10,000	0.0	0.0
872	Lk Redman	8097	2050306	47,900,000	59,200	0.0	3.4
872	Lk Redman	8110	2050306	8,040,000	13,100	0.0	0.5
872	Lk Redman	8115	2050306	14,100,000	20,500	0.0	3.2
872	Lk Redman	8097	2050306	8,530,000	13,700	0.0	0.0
872	Lk Redman	8129	2050306	8,340,000	14,700	0.0	0.0
872	Lk Redman	8097	2050306	13,500,000	17,600	0.0	0.0
872	Lk Redman	8142	2050306	2,000,000	6,360	0.0	0.0
890	Conewago Lk	8545	2050306	9,440,000	15,200	0.0	0.0
890	Conewago Lk	8519	2050306	6,640,000	12,700	0.0	0.0
890	Conewago Lk	8519	2050306	3,150,000	8,070	0.0	0.0
890	Conewago Lk	8519	2050306	9,270,000	14,100	0.0	0.0
890	Conewago Lk	8519	2050306	3,570,000	8,300	0.0	0.0
890	Conewago Lk	8519	2050306	8,080,000	14,000	0.0	0.0
890	Conewago Lk	8519	2050306	2,610,000	7,910	0.0	0.0
890	Conewago Lk	8519	2050306	583,000	4,010	0.0	0.0
890	Conewago Lk	8519	2050306	2,160,000	7,350	0.0	0.0
901	Stacey Pd	30901	2050105	203,000	1,880	0.0	0.0
905	Wrisley's Lk	30667	2050106	665,000	3,480	0.0	0.0
906	Unnamed	30718	2050106	781,000	4,060	0.0	0.0
910	Brownings Pd	29499	2050106	1,020,000	4,410	0.0	0.0
914	Chillson Pd	29624	2050106	947,000	4,420	0.0	0.0
915	Rockwell Pd	30079	2050106	1,440,000	5,480	0.0	0.0
924	Haig Pd	30063	2050106	1,900,000	6,290	0.0	0.0
927	Ackleys Pd	29994	2050106	7,050,000	12,200	0.0	0.0
930	Cash Pd	30337	2050106	828,000	3,790	0.0	0.0
931	Unnamed (Allen's Lk)	30367	2050106	615,000	3,000	0.0	0.0
934	Balsam Pd	30821	2050106	1,620,000	5,230	0.0	0.0
938	Unnamed	30806	2050106	1,930,000	5,720	0.0	0.0
946	Wildwood Lk	10139	2050305	20,400,000	20,900	0.0	222.1

Acres Developed Low Intsy	Acres Herbaceous	Acres Woody	Acres Exposed	Acres Water	Acres Total	Lake ID
3.9	2,181.3	14.8	0.0	4.9	2,204.9	810
0.0	632.3	0.0	0.0	0.0	632.3	810
20.1	914.1	289.3	0.0	0.8	1,224.2	813
13.0	541.0	280.3	0.0	0.0	834.3	813
67.5	1,248.3	809.7	0.0	16.5	2,142.1	813
134.8	688.8	698.7	0.0	314.4	1,836.8	813
59.8	1,660.5	707.0	0.0	90.8	2,518.1	813
19.3	1,772.4	267.0	0.0	0.2	2,058.8	813
6.2	1,043.4	226.6	0.0	0.0	1,276.1	813
2.5	102.2	68.1	0.0	7.7	180.5	815
104.7	419.3	314.1	0.0	195.7	1,033.8	833
0.0	548.0	976.8	0.0	10.8	1,535.6	843
43.9	1,094.2	221.3	0.0	312.4	1,671.8	843
0.0	372.5	553.1	0.0	81.2	1,006.8	845
74.1	2,125.3	1,423.5	0.0	62.2	3,685.1	849
1.7	720.6	2,576.4	0.0	264.1	3,562.8	852
69.5	1,859.0	3,545.5	0.0	915.1	6,389.0	860
73.7	2,630.0	3,259.5	0.0	354.0	6,317.1	860
43.6	262.2	1,838.1	0.0	8.3	2,152.3	860
140.5	399.2	189.2	0.0	225.5	954.4	869
473.7	4,264.6	6,814.1	0.2	284.8	11,840.6	872
398.6	386.4	1,202.0	0.0	0.9	1,988.4	872
395.8	885.7	2,191.8	0.0	0.0	3,476.6	872
38.0	505.8	1,564.3	0.0	0.0	2,108.1	872
24.4	453.4	1,585.8	0.0	0.0	2,063.6	872
0.0	1,022.7	2,293.9	30.3	0.0	3,346.9	872
0.0	200.3	294.1	0.0	0.0	494.4	872
0.0	2,116.0	215.4	0.0	0.0	2,331.4	890
0.0	1,198.9	444.0	0.0	0.0	1,642.9	890
19.8	464.7	294.4	0.0	0.0	778.8	890
36.8	1,582.9	655.1	0.0	15.3	2,290.0	890
12.8	626.9	241.9	0.0	0.0	881.5	890
61.2	1,299.0	244.3	0.0	391.8	1,996.3	890
9.1	352.0	282.2	0.0	0.0	643.2	890
1.5	133.6	9.0	0.0	0.0	144.1	890
32.6	345.3	135.8	0.0	20.5	534.2	890
0.0	37.5	1.9	0.0	10.8	50.2	901
0.0	135.9	13.1	0.0	15.3	164.3	905
0.0	171.7	8.2	0.0	12.7	192.6	906
0.0	25.6	196.9	0.0	27.3	249.9	910
0.0	73.4	141.9	3.1	15.8	234.1	914
0.0	205.6	121.2	3.4	25.6	355.8	915
0.0	183.3	249.4	0.0	36.6	469.3	924
0.0	958.6	764.5	0.0	17.9	1,741.0	927
0.0	160.3	33.4	0.0	10.2	203.9	930
0.0	105.2	16.5	0.0	30.1	151.8	931
0.0	138.7	230.3	0.0	32.3	401.2	934
7.3	303.8	124.6	0.0	40.0	475.7	938
1231.0	2,048.2	1,541.8	0.0	0.0	5,043.1	946

Table C1. Land Cover (Acres) For Subwatersheds of Potentially Significant, Publicly-Owned Lakes—Continued

Lake ID	Primary Name	WRDS #	HUC	Area (sq m)	Perimeter (m)	Acres Unknown	Acres Developed High Intsy
974	Nuangola Lk	28276	2050107	3,450,000	8,600	0.0	0.0
979	Splashdam Pd	29250	2050106	17,300,000	22,400	0.0	7.9
979	Splashdam Pd	29338	2050106	4,240,000	9,270	0.0	0.0
980	Lk John	29250	2050106	3,310,000	7,920	0.0	0.0
984	Pine Marsh	20456	2050206	3,250,000	7,860	0.0	0.0
998	Stillwater Lk	28618	2050107	37,800,000	42,400	0.0	0.0
998	Stillwater Lk	28611	2050107	26,600,000	38,300	0.0	0.0
998	Stillwater Lk	28612	2050107	13,800,000	26,000	0.0	0.0
998	Stillwater Lk	28618	2050107	3,850,000	9,950	0.0	0.0
998	Stillwater Lk	28374	2050107	5,810,000	11,600	0.0	0.0
999	Unnamed (Lk Erie)	28374	2050107	1,920,000	5,860	0.0	0.0
1011	Polk Pd	29105	2050106	854,000	4,080	0.0	0.0
1022	Unnamed (Cozy Lk)	28925	2050106	286,000	2,270	0.0	0.0
1048	Dunn Pd	28618	2050107	4,140,000	9,910	0.0	0.0
1049	Unnamed (Lk Larue)	29360	2050106	1,610,000	5,330	0.0	0.0
1057	Unnamed	32188	2050101	1,630,000	5,580	0.0	0.0
1109	Lakeside Pd	28925	2050106	6,120,000	12,700	0.0	0.0
1128	Mud Pd	30374	2050106	930,000	4,380	0.0	0.0
1130	Black Pd	30206	2050106	2,820,000	6,660	0.0	0.0
1131	Unnamed (PA-RC&D-103)	29511	2050106	882,000	4,140	0.0	0.0
1150	Kast Pd	20299	2050206	6,160,000	12,700	0.0	0.0
1154	Gephart Dm	29276	2050106	488,000	2,770	0.0	0.0
1156	Seeleyville Dm	20433	2050206	1,250,000	4,430	0.0	0.0
1170	Tyrone Sportsman Club	15858	2050302	1,410,000	5,370	0.0	0.0
1171	Halfway Lk	19019	2050206	3,910,000	12,100	0.0	0.0
1171	Halfway Lk	19022	2050206	2,120,000	8,380	0.0	0.0
1171	Halfway Lk	19004	2050206	7,550,000	15,200	0.0	0.0
1171	Halfway Lk	19004	2050206	120,000	2,020	0.0	0.0

Acres Developed Low Intsy	Acres Herbaceous	Acres Woody	Acres Exposed	Acres Water	Acres Total	Lake ID
48.5	649.9	68.1	0.0	88.5	855.0	974
67.2	3,362.5	789.7	0.0	52.8	4,280.0	979
0.0	960.3	65.5	0.0	23.2	1,049.0	979
0.5	693.0	23.9	0.0	99.8	817.1	980
0.0	781.2	21.5	0.0	0.0	802.6	984
58.5	6,164.9	2,942.1	0.0	169.0	9,334.5	998
82.5	4,281.9	2,021.3	0.0	196.1	6,581.8	998
17.9	2,154.4	1,042.9	0.0	192.4	3,407.7	998
1.7	767.1	172.2	0.0	11.3	952.3	998
38.6	926.0	405.1	0.0	65.8	1,435.5	998
9.9	378.7	54.8	29.0	0.0	472.4	999
10.2	118.3	76.8	0.0	6.2	211.4	1011
0.0	16.2	39.4	0.0	15.4	71.0	1022
3.2	743.9	160.9	0.0	116.4	1,024.6	1048
0.0	154.9	215.8	0.0	26.9	397.5	1049
0.0	357.8	22.5	0.0	22.4	402.8	1057
0.0	687.1	730.2	0.0	95.3	1,512.6	1109
0.0	163.9	24.9	0.0	41.1	229.8	1128
0.0	177.0	497.5	0.0	21.8	696.2	1130
0.0	77.5	120.0	0.0	20.8	218.4	1131
46.6	794.4	663.9	0.0	16.5	1,521.5	1150
0.0	85.6	19.3	0.0	15.3	120.2	1154
0.0	253.9	46.9	0.0	8.6	309.5	1156
0.0	307.5	37.8	0.0	2.0	347.3	1170
0.0	947.3	19.3	0.0	0.0	966.6	1171
6.0	517.1	0.0	0.0	0.0	523.1	1171
51.4	1,802.6	11.0	0.0	0.0	1,865.0	1171
1.5	27.3	1.1	0.0	0.0	30.0	1171

Table C2. Land Cover (Percentage) for Subwatersheds of Potentially Significant, Publicly-Owned Lakes

Lake ID	Primary Name	WRDS #	HUC	Area (sq m)	Perimeter (m)	Percent Unknown
20	Shawnee Lk	15236	2050303	9,530,000	15,900	2.24
20	Shawnee Lk	15186	2050303	27,200,000	32,900	0.00
20	Shawnee Lk	15186	2050303	20,100,000	22,400	0.00
20	Shawnee Lk	15216	2050303	10,600,000	19,500	8.04
20	Shawnee Lk	15201	2050303	16,400,000	22,200	0.00
20	Shawnee Lk	15197	2050303	10,800,000	25,300	0.00
49	Canoe Creek Dm	16255	2050302	43,300,000	37,300	0.00
79	Sunfish Pd	30385	2050106	621,000	3,080	0.00
81	Unnamed (PA-RC&D-102)	29511	2050106	5,720,000	10,400	0.00
89	Mountain Lk	30698	2050106	666,000	3,340	0.00
94	Stephen Foster Dm	30718	2050106	26,100,000	33,900	0.00
94	Stephen Foster Dm	30722	2050106	4,100,000	8,260	0.00
95	Lk Ondawa	30878	2050105	2,750,000	6,520	0.00
122	Glendale Lk	26434	2050201	4,470,000	9,570	0.00
122	Glendale Lk	26443	2050201	8,260,000	17,700	0.00
122	Glendale Lk	26371	2050201	32,500,000	33,200	0.00
122	Glendale Lk	26434	2050201	2,850,000	7,990	0.00
122	Glendale Lk	26444	2050201	10,200,000	15,500	0.00
122	Glendale Lk	26443	2050201	254,000	2,500	0.00
122	Glendale Lk	26396	2050201	2,940,000	8,300	0.00
122	Glendale Lk	26371	2050201	7,620,000	15,000	0.00
122	Glendale Lk	26377	2050201	3,230,000	8,850	0.00
122	Glendale Lk	26396	2050201	15,800,000	19,000	0.00
122	Glendale Lk	26377	2050201	3,880,000	10,300	0.00
122	Glendale Lk	26377	2050201	16,500,000	22,700	0.00
128	George B Stevenson Dm	24066	2050202	18,300,000	55,900	0.00
128	George B Stevenson Dm	24135	2050202	10,100,000	15,800	0.00
128	George B Stevenson Dm	24150	2050202	763,000	4,430	0.00
128	George B Stevenson Dm	24149	2050202	2,740,000	7,430	0.00
128	George B Stevenson Dm	24132	2050202	3,710,000	8,230	0.00
128	George B Stevenson Dm	24128	2050202	7,690,000	12,800	0.00
128	George B Stevenson Dm	24118	2050202	6,430,000	15,100	0.00
128	George B Stevenson Dm	24120	2050202	3,630,000	9,080	0.00
128	George B Stevenson Dm	24127	2050202	1,540,000	5,910	0.00
128	George B Stevenson Dm	24109	2050202	802,000	3,720	0.00
128	George B Stevenson Dm	24108	2050202	9,870,000	16,100	0.00
128	George B Stevenson Dm	24121	2050202	8,080,000	13,300	0.00
128	George B Stevenson Dm	24119	2050202	637,000	3,750	0.00
128	George B Stevenson Dm	24103	2050202	5,660,000	11,600	0.00
128	George B Stevenson Dm	24115	2050202	5,150,000	9,380	0.00
128	George B Stevenson Dm	24099	2050202	3,510,000	8,670	0.00
128	George B Stevenson Dm	24101	2050202	4,000,000	8,380	0.00
128	George B Stevenson Dm	24100	2050202	9,390,000	13,600	0.00
128	George B Stevenson Dm	24096	2050202	7,250,000	12,600	0.00
134	Boy Scout Dm	12481	2050301	3,110,000	7,760	0.00
137	Colyer Lk	18377	2050301	21,700,000	27,800	0.00
147	Poe Valley Lk	18224	2050301	12,900,000	22,700	0.00
159	Cold Stream Dm	25831	2050201	7,920,000	13,100	0.00
159	Cold Stream Dm	25831	2050201	10,300,000	18,600	0.00
159	Cold Stream Dm	25834	2050201	9,750,000	16,900	0.00

Percent Developed High Intsy	Percent Developed Low Intsy	Percent Herbaceous	Percent Woody	Percent Exposed	Percent Water	Percent Total	Lake ID
0.00	0.00	76.08	21.68	0.00	0.00	100.00	20
0.00	0.31	63.40	36.29	0.00	0.00	100.00	20
0.00	1.34	57.73	31.67	0.00	9.26	100.00	20
0.00	1.26	65.13	25.58	0.00	0.00	100.00	20
0.00	0.73	82.52	16.74	0.00	0.00	100.00	20
0.00	0.00	62.88	37.12	0.00	0.00	100.00	20
0.00	0.16	87.31	11.01	0.00	1.52	100.00	49
0.00	0.00	69.86	7.26	0.00	22.88	100.00	79
0.00	0.00	55.47	44.44	0.00	0.09	100.00	81
0.00	0.66	72.26	1.50	0.00	25.59	100.00	89
0.00	1.09	49.42	47.86	0.00	1.63	100.00	94
0.00	1.71	82.46	15.83	0.00	0.00	100.00	94
0.00	2.21	48.09	45.38	0.00	4.32	100.00	95
0.00	0.00	90.05	9.62	0.34	0.00	100.00	122
0.00	0.00	87.49	12.51	0.00	0.00	100.00	122
0.00	2.03	73.61	3.86	0.00	20.50	100.00	122
0.00	0.81	96.28	1.64	1.03	0.24	100.00	122
0.00	0.00	85.77	14.23	0.00	0.00	100.00	122
0.00	0.00	93.38	6.62	0.00	0.00	100.00	122
0.00	2.32	85.80	11.88	0.00	0.00	100.00	122
0.00	0.61	73.36	26.04	0.00	0.00	100.00	122
0.00	0.00	94.82	4.82	0.00	0.37	100.00	122
0.00	0.81	65.14	34.05	0.00	0.00	100.00	122
0.00	0.00	86.35	13.65	0.00	0.00	100.00	122
0.00	0.30	63.73	35.96	0.00	0.00	100.00	122
0.00	0.78	84.69	8.10	0.00	6.42	100.00	128
0.00	0.00	97.67	2.33	0.00	0.00	100.00	128
0.00	0.00	97.45	2.55	0.00	0.00	100.00	128
0.00	0.00	99.75	0.25	0.00	0.00	100.00	128
0.00	0.00	97.93	2.07	0.00	0.00	100.00	128
0.00	0.00	97.76	2.24	0.00	0.00	100.00	128
0.00	0.00	97.03	2.88	0.00	0.09	100.00	128
0.00	0.00	99.72	0.22	0.00	0.05	100.00	128
0.00	0.00	99.72	0.00	0.00	0.28	100.00	128
0.00	0.00	100.00	0.00	0.00	0.00	100.00	128
0.00	0.00	99.33	0.65	0.00	0.03	100.00	128
0.00	0.00	99.11	0.89	0.00	0.00	100.00	128
0.00	0.00	100.00	0.00	0.00	0.00	100.00	128
0.00	0.00	98.82	1.18	0.00	0.00	100.00	128
0.00	0.32	91.74	7.95	0.00	0.00	100.00	128
0.00	0.46	96.22	0.89	0.00	2.43	100.00	128
0.00	0.00	97.45	2.55	0.00	0.00	100.00	128
0.00	0.16	98.00	1.81	0.00	0.03	100.00	128
0.00	0.02	98.12	1.54	0.00	0.32	100.00	128
0.00	5.40	92.83	1.77	0.00	0.00	100.00	134
0.00	0.00	94.77	3.72	0.00	1.51	100.00	137
0.00	0.00	99.05	0.28	0.00	0.67	100.00	147
0.00	3.51	86.76	6.24	3.02	0.47	100.00	159
0.00	0.97	96.39	0.56	1.88	0.20	100.00	159
0.00	0.28	95.01	4.71	0.00	0.00	100.00	159

Table C2. Land Cover (Percentage) for Subwatersheds of Potentially Significant, Publicly-Owned Lakes—Continued

Lake ID	Primary Name	WRDS #	HUC	Area (sq m)	Perimeter (m)	Percent Unknown
159	Cold Stream Dm	25841	2050201	2,480,000	7,570	0.00
159	Cold Stream Dm	25841	2050201	7,270,000	15,300	0.00
159	Cold Stream Dm	25849	2050201	6,820,000	14,100	0.00
159	Cold Stream Dm	25841	2050201	718,000	3,570	0.00
159	Cold Stream Dm	25847	2050201	6,560,000	14,800	0.00
159	Cold Stream Dm	25849	2050201	2,880,000	7,490	0.00
165	Black Moshannon Lk	25703	2050201	17,700,000	26,400	0.00
165	Black Moshannon Lk	25740	2050201	3,930,000	8,270	0.00
165	Black Moshannon Lk	25742	2050201	7,620,000	11,200	0.00
165	Black Moshannon Lk	25746	2050201	4,510,000	10,600	0.00
165	Black Moshannon Lk	25703	2050201	5,980,000	10,300	0.00
178	Foster J Sayers Lk	22865	2050204	3,140,000	8,350	0.00
178	Foster J Sayers Lk	22897	2050204	1,010,000	4,420	0.00
178	Foster J Sayers Lk	22900	2050204	585,000	3,070	0.00
178	Foster J Sayers Lk	22897	2050204	3,210,000	11,000	0.00
178	Foster J Sayers Lk	22912	2050204	882,000	4,190	0.00
178	Foster J Sayers Lk	22901	2050204	510,000	2,900	0.00
178	Foster J Sayers Lk	22910	2050204	637,000	3,850	0.00
178	Foster J Sayers Lk	22909	2050204	305,000	2,520	0.00
178	Foster J Sayers Lk	22908	2050204	630,000	3,490	0.00
178	Foster J Sayers Lk	22412	2050204	69,400,000	75,200	0.00
178	Foster J Sayers Lk	22872	2050204	27,200,000	28,100	0.00
178	Foster J Sayers Lk	22905	2050204	11,600,000	24,400	0.00
178	Foster J Sayers Lk	22874	2050204	2,650,000	10,100	0.00
178	Foster J Sayers Lk	22921	2050204	5,790,000	13,000	0.00
178	Foster J Sayers Lk	22954	2050204	10,600,000	16,800	0.00
178	Foster J Sayers Lk	22928	2050204	43,900,000	36,400	0.00
197	Goss Run Dm	25883	2050201	1,990,000	5,910	0.00
199	Curwensville Res	18668	2050201	36,400,000	46,500	0.00
199	Curwensville Res	18668	2050201	6,420	693	0.00
199	Curwensville Res	26727	2050201	1,900,000	6,530	0.00
199	Curwensville Res	26731	2050201	2,100,000	7,490	0.00
199	Curwensville Res	26728	2050201	2,790,000	7,350	0.00
211	Parker Lk	24848	2050202	4,470,000	10,600	0.00
211	Parker Lk	24827	2050202	17,200,000	30,400	0.00
211	Parker Lk	24850	2050202	13,400,000	20,000	0.00
211	Parker Lk	24857	2050202	4,110,000	9,630	0.00
211	Parker Lk	24859	2050202	3,420,000	8,520	0.00
211	Parker Lk	24863	2050202	1,900,000	5,970	0.00
211	Parker Lk	24864	2050202	1,290,000	5,140	0.00
213	Shaggers Inn Waterfowl Dm	24787	2050202	966,000	4,200	0.00
244	Alvin R Bush Dm	23661	2050203	62,000,000	164,000	0.00
244	Alvin R Bush Dm	23685	2050203	1,390,000	5,220	0.00
244	Alvin R Bush Dm	23684	2050203	3,500,000	7,770	0.00
244	Alvin R Bush Dm	23682	2050203	563,000	3,610	0.00
244	Alvin R Bush Dm	23683	2050203	1,940,000	6,650	0.00
244	Alvin R Bush Dm	23681	2050203	2,950,000	7,590	0.00
244	Alvin R Bush Dm	23678	2050203	1,690,000	6,150	0.00
244	Alvin R Bush Dm	23680	2050203	238,000	2,600	0.00
244	Alvin R Bush Dm	23679	2050203	1,110,000	4,590	0.00

Percent Developed High Intsy	Percent Developed Low Intsy	Percent Herbaceous	Percent Woody	Percent Exposed	Percent Water	Percent Total	Lake ID
0.00	0.00	97.78	2.22	0.00	0.00	100.00	159
0.00	0.00	93.37	6.40	0.22	0.00	100.00	159
0.00	0.01	98.08	1.92	0.00	0.00	100.00	159
0.00	0.00	98.52	1.48	0.00	0.00	100.00	159
0.00	0.16	95.59	4.25	0.00	0.00	100.00	159
0.00	0.37	97.02	2.61	0.00	0.00	100.00	159
0.20	0.62	90.41	3.72	0.00	5.04	100.00	165
0.00	0.00	100.00	0.00	0.00	0.00	100.00	165
0.00	0.00	99.43	0.57	0.00	0.00	100.00	165
0.00	0.00	100.00	0.00	0.00	0.00	100.00	165
0.00	0.00	99.95	0.05	0.00	0.00	100.00	165
0.00	0.20	77.50	22.30	0.00	0.00	100.00	178
0.00	0.00	92.03	7.97	0.00	0.00	100.00	178
0.00	0.00	96.35	3.65	0.00	0.00	100.00	178
0.00	0.43	82.00	17.57	0.00	0.00	100.00	178
0.00	0.07	99.93	0.00	0.00	0.00	100.00	178
0.00	0.00	99.02	0.98	0.00	0.00	100.00	178
0.00	0.39	89.06	10.55	0.00	0.00	100.00	178
0.00	0.82	81.80	17.38	0.00	0.00	100.00	178
0.00	0.00	100.00	0.00	0.00	0.00	100.00	178
0.04	4.06	57.47	27.18	0.00	11.25	100.00	178
0.07	2.08	46.75	51.10	0.00	0.00	100.00	178
0.00	0.68	92.35	6.96	0.00	0.00	100.00	178
0.00	0.00	95.43	4.57	0.00	0.00	100.00	178
0.00	2.05	93.00	4.95	0.00	0.00	100.00	178
0.00	8.83	80.69	10.48	0.00	0.00	100.00	178
0.00	1.40	38.04	60.56	0.00	0.00	100.00	178
0.00	3.02	64.01	29.02	3.96	0.00	100.00	197
0.00	2.59	80.46	4.40	2.33	10.21	100.00	199
0.00	0.00	50.00	50.00	0.00	0.00	100.00	199
0.00	1.64	76.13	21.90	0.00	0.33	100.00	199
0.00	0.45	84.73	14.26	0.57	0.00	100.00	199
0.00	0.69	83.95	15.20	0.00	0.16	100.00	199
0.00	0.20	95.93	3.87	0.00	0.00	100.00	211
0.00	0.17	95.78	3.40	0.00	0.65	100.00	211
0.00	0.00	89.79	10.21	0.00	0.00	100.00	211
0.00	0.00	99.47	0.53	0.00	0.00	100.00	211
0.00	1.85	98.10	0.05	0.00	0.00	100.00	211
0.00	0.00	99.01	0.99	0.00	0.00	100.00	211
0.00	0.00	74.20	25.80	0.00	0.00	100.00	211
0.00	0.00	86.96	2.66	10.38	0.00	100.00	213
0.00	0.13	89.29	7.61	0.00	2.98	100.00	244
0.00	0.00	98.51	1.49	0.00	0.00	100.00	244
0.00	0.00	97.77	2.23	0.00	0.00	100.00	244
0.00	0.00	79.11	20.89	0.00	0.00	100.00	244
0.00	0.00	98.87	1.13	0.00	0.00	100.00	244
0.00	0.00	95.49	2.67	0.00	1.84	100.00	244
0.00	0.00	94.07	5.67	0.00	0.26	100.00	244
0.00	0.00	73.95	24.74	0.00	1.32	100.00	244
0.00	0.00	99.77	0.23	0.00	0.00	100.00	244

Table C2. Land Cover (Percentage) for Subwatersheds of Potentially Significant, Publicly-Owned Lakes—Continued

Lake ID	Primary Name	WRDS #	HUC	Area (sq m)	Perimeter (m)	Percent Unknown
250	Briar Creek Res	28085	2050107	13,500,000	22,400	0.00
264	Fuller Lk	63167	2050305	59,000	976	0.00
266	Laurel Lk	63178	2050305	5,090,000	9,950	0.00
266	Laurel Lk	63179	2050305	3,780,000	8,390	0.00
266	Laurel Lk	63181	2050305	10,300,000	20,900	0.00
266	Laurel Lk	63167	2050305	5,630,000	14,100	0.00
266	Laurel Lk	63167	2050305	25,700,000	31,200	0.00
266	Laurel Lk	63190	2050305	10,300,000	13,500	0.00
272	Childrens Lk	10121	2050305	8,520,000	13,100	0.00
280	Opossum Creek Dm	10303	2050305	12,900,000	17,500	0.00
283	Doubling Gap Lk	10385	2050305	8,260,000	14,100	0.00
319	Cowans Gap Lk	13182	2050304	13,600,000	20,100	0.00
321	Sinoquipe Lk	13144	2050304	12,500,000	24,800	0.00
321	Sinoquipe Lk	13149	2050304	2,420,000	8,270	0.00
326	Raystown Lk	13359	2050303	21,500,000	23,000	0.00
326	Raystown Lk	13542	2050303	64,300,000	61,700	0.00
326	Raystown Lk	13349	2050303	29,100,000	26,000	0.00
326	Raystown Lk	13421	2050303	52,000,000	36,300	0.00
326	Raystown Lk	13349	2050303	22,800,000	23,200	0.00
326	Raystown Lk	14770	2050303	88,700,000	102,000	15.41
326	Raystown Lk	13421	2050303	1,100,000	4,870	0.00
326	Raystown Lk	14899	2050303	3,000,000	7,900	65.99
326	Raystown Lk	13349	2050303	12,400,000	17,000	0.00
326	Raystown Lk	13460	2050303	59,300,000	53,900	0.00
326	Raystown Lk	13464	2050303	5,560,000	12,100	0.00
326	Raystown Lk	13636	2050303	12,300,000	14,800	0.00
326	Raystown Lk	13636	2050303	6,410,000	13,700	0.00
326	Raystown Lk	13465	2050303	1,540,000	5,620	0.00
326	Raystown Lk	14893	2050303	871,000	3,800	93.31
326	Raystown Lk	13561	2050303	4,260,000	10,500	0.00
326	Raystown Lk	13545	2050303	3,470,000	8,950	0.00
326	Raystown Lk	13673	2050303	27,200,000	24,600	0.00
326	Raystown Lk	13557	2050303	1,220,000	5,920	0.00
326	Raystown Lk	14880	2050303	4,360,000	11,500	0.00
326	Raystown Lk	13673	2050303	3,750,000	8,490	0.00
326	Raystown Lk	14881	2050303	2,870,000	6,800	0.00
326	Raystown Lk	13349		28,600,000	37,100	0.00
326	Raystown Lk	13653	2050303	19,300,000	20,900	0.00
326	Raystown Lk	13653	2050303	1,160,000	5,250	0.00
326	Raystown Lk	14863	2050303	9,120,000	18,800	34.36
326	Raystown Lk	14857	2050303	4,350,000	12,100	0.00
326	Raystown Lk	13809	2050303	91,900,000	80,600	0.00
326	Raystown Lk	14856	2050303	2,890,000	7,260	0.00
326	Raystown Lk	13460	2050303	57,900,000	58,900	0.00
326	Raystown Lk	14788	2050303	29,700,000	34,900	0.00
326	Raystown Lk	14868	2050303	2,680,000	7,930	75.28
326	Raystown Lk	14871	2050303	1,100,000	4,600	64.22
326	Raystown Lk	13502	2050303	17,900,000	18,100	0.00
326	Raystown Lk	13940	2050303	34,600,000	31,800	0.00
326	Raystown Lk	14915	2050303	27,300,000	34,700	3.77

Percent Developed High Intsy	Percent Developed Low Intsy	Percent Herbaceous	Percent Woody	Percent Exposed	Percent Water	Percent Total	Lake ID
0.00	0.13	55.66	42.83	0.00	1.38	100.00	250
0.00	0.00	63.44	0.00	0.00	36.56	100.00	264
0.00	0.00	97.63	2.37	0.00	0.00	100.00	266
0.00	0.00	99.65	0.00	0.00	0.35	100.00	266
0.00	0.00	98.46	1.54	0.00	0.00	100.00	266
0.00	0.08	98.07	0.00	0.00	1.85	100.00	266
0.00	0.08	95.53	4.39	0.00	0.00	100.00	266
0.00	0.00	87.51	12.49	0.00	0.00	100.00	266
0.36	16.03	4.54	78.81	0.00	0.26	100.00	272
0.00	0.00	48.22	49.84	0.00	1.94	100.00	280
0.00	0.00	96.80	3.20	0.00	0.00	100.00	283
0.00	0.06	98.46	0.08	0.00	1.39	100.00	319
0.00	0.01	86.12	13.48	0.00	0.40	100.00	321
0.00	0.00	84.48	15.52	0.00	0.00	100.00	321
0.00	0.35	81.53	9.52	0.00	8.60	100.00	326
0.00	0.09	69.15	30.62	0.14	0.00	100.00	326
0.00	0.03	63.36	0.62	0.00	35.99	100.00	326
0.00	0.10	69.94	25.79	0.00	4.16	100.00	326
0.00	0.76	61.29	2.58	0.00	35.37	100.00	326
0.00	1.02	54.01	29.55	0.01	0.00	100.00	326
0.00	0.00	63.39	10.22	0.00	26.38	100.00	326
0.00	0.00	21.11	12.90	0.00	0.00	100.00	326
0.00	0.22	63.28	1.64	0.00	34.86	100.00	326
0.00	0.00	78.58	19.89	0.01	1.53	100.00	326
0.00	0.00	99.36	0.64	0.00	0.00	100.00	326
0.00	0.00	69.87	30.13	0.00	0.00	100.00	326
0.00	0.64	84.94	11.57	0.00	2.85	100.00	326
0.00	0.00	100.00	0.00	0.00	0.00	100.00	326
0.00	0.00	6.69	0.00	0.00	0.00	100.00	326
0.00	0.00	85.42	14.58	0.00	0.00	100.00	326
0.00	0.00	77.68	22.32	0.00	0.00	100.00	326
0.00	0.49	83.68	15.83	0.00	0.00	100.00	326
0.00	0.00	84.74	15.26	0.00	0.00	100.00	326
0.00	0.62	88.74	10.64	0.00	0.00	100.00	326
0.00	0.85	90.88	1.15	0.00	7.12	100.00	326
0.00	0.00	97.02	2.98	0.00	0.00	100.00	326
0.00	1.79	70.38	8.71	0.00	19.12	100.00	326
0.00	0.00	87.19	12.81	0.00	0.00	100.00	326
0.00	0.27	78.26	5.44	0.00	16.04	100.00	326
0.00	0.00	65.40	0.24	0.00	0.00	100.00	326
0.00	2.18	94.25	3.56	0.00	0.00	100.00	326
0.00	1.21	51.59	47.10	0.00	0.10	100.00	326
0.00	0.26	99.20	0.54	0.00	0.00	100.00	326
0.00	0.40	85.18	11.39	2.99	0.03	100.00	326
0.00	0.32	57.44	42.24	0.00	0.00	100.00	326
0.00	0.00	24.72	0.00	0.00	0.00	100.00	326
0.00	0.00	35.78	0.00	0.00	0.00	100.00	326
0.00	0.00	63.26	36.74	0.00	0.00	100.00	326
0.00	0.28	44.93	54.65	0.00	0.14	100.00	326
0.00	0.08	63.39	32.74	0.02	0.00	100.00	326

Table C2. Land Cover (Percentage) for Subwatersheds of Potentially Significant, Publicly-Owned Lakes—Continued

Lake ID	Primary Name	WRDS #	HUC	Area (sq m)	Perimeter (m)	Percent Unknown
326	Raystown Lk	13349	2050303	13,800,000	17,600	0.00
326	Raystown Lk	13726	2050303	14,900,000	22,100	0.00
326	Raystown Lk	13988	2050303	19,000,000	23,900	0.00
326	Raystown Lk	13727	2050303	3,560,000	8,780	0.00
326	Raystown Lk	13719	2050303	5,260,000	10,700	0.00
326	Raystown Lk	14792	2050303	19,300,000	23,400	0.00
326	Raystown Lk	13722	2050303	3,240,000	10,400	0.00
326	Raystown Lk	14927	2050303	7,840,000	15,200	14.47
326	Raystown Lk	14937	2050303	9,310,000	14,200	27.57
326	Raystown Lk	13349	2050303	143,000,000	172,000	0.00
326	Raystown Lk	13055	2050304	22,900,000	32,200	0.00
326	Raystown Lk	13717	2050303	4,760,000	12,100	0.00
326	Raystown Lk	13844	2050303	18,500,000	24,800	0.00
326	Raystown Lk	13717	2050303	17,800,000	27,800	0.00
326	Raystown Lk	13609	2050304	5,570,000	12,600	0.00
326	Raystown Lk	13737	2050303	1,690,000	6,530	0.00
326	Raystown Lk	14937	2050303	14,200,000	22,100	0.00
326	Raystown Lk	13723	2050303	5,770,000	11,600	0.00
326	Raystown Lk	13856	2050303	1,750,000	6,270	0.00
326	Raystown Lk	13915	2050303	25,300,000	26,000	0.00
326	Raystown Lk	13773	2050303	13,400,000	20,500	0.00
326	Raystown Lk	14948	2050303	3,720,000	10,100	23.60
326	Raystown Lk	13064	2050304	4,620,000	10,500	0.00
326	Raystown Lk	13794	2050303	7,330,000	14,600	0.00
326	Raystown Lk	14586	2050303	110,000,000	122,000	3.57
326	Raystown Lk	13791	2050303	23,500,000	34,300	0.00
326	Raystown Lk	13859	2050303	49,500,000	36,800	0.00
326	Raystown Lk	13785	2050303	4,630,000	10,100	0.00
326	Raystown Lk	99003	2050303	7,620,000	12,400	0.00
326	Raystown Lk	13806	2050303	2,950,000	8,530	0.00
326	Raystown Lk	14907	2050303	8,690,000	13,600	0.00
326	Raystown Lk	14993	2050303	17,900,000	21,300	17.59
326	Raystown Lk	13803	2050303	4,440,000	10,800	0.00
326	Raystown Lk	14686	2050303	28,100,000	25,200	0.00
326	Raystown Lk	14031	2050303	11,900,000	20,900	0.00
326	Raystown Lk	14030	2050303	15,900,000	23,500	0.00
326	Raystown Lk	14030	2050303	521,000	3,760	0.00
326	Raystown Lk	14725	2050303	36,100,000	31,100	0.00
326	Raystown Lk	14625	2050303	22,400,000	23,800	0.00
326	Raystown Lk	14070	2050303	28,700,000	32,700	0.00
326	Raystown Lk	14044	2050303	5,570,000	10,900	0.00
326	Raystown Lk	14053	2050303	21,100,000	22,700	0.00
326	Raystown Lk	14424	2050303	36,700,000	28,800	0.00
326	Raystown Lk	14602	2050303	22,200,000	22,600	0.00
326	Raystown Lk	14719	2050303	5,420,000	12,700	0.00
326	Raystown Lk	14675	2050303	7,290,000	14,100	0.00
326	Raystown Lk	14586		19,400,000	22,100	0.00
326	Raystown Lk	14096	2050303	25,000,000	24,400	0.00
326	Raystown Lk	14086	2050303	14,600,000	17,800	0.00
326	Raystown Lk	13349	2050303	47,100,000	39,000	0.00

Percent Developed High Intsy	Percent Developed Low Intsy	Percent Herbaceous	Percent Woody	Percent Exposed	Percent Water	Percent Total	Lake ID
0.00	0.79	85.33	13.88	0.00	0.00	100.00	326
0.00	0.00	91.03	8.97	0.00	0.00	100.00	326
0.00	0.03	52.44	47.46	0.00	0.07	100.00	326
0.00	0.00	89.74	10.26	0.00	0.00	100.00	326
0.00	0.00	94.44	5.56	0.00	0.00	100.00	326
0.00	1.98	60.87	37.06	0.09	0.00	100.00	326
0.00	0.00	89.50	10.50	0.00	0.00	100.00	326
0.00	0.00	70.63	14.90	0.00	0.00	100.00	326
0.00	0.00	67.38	5.06	0.00	0.00	100.00	326
0.13	5.16	67.33	23.19	0.15	4.04	100.00	326
0.00	0.00	84.06	15.94	0.00	0.00	100.00	326
0.00	1.13	86.95	11.92	0.00	0.00	100.00	326
0.00	0.00	99.64	0.36	0.00	0.00	100.00	326
0.00	0.79	90.19	9.02	0.00	0.00	100.00	326
0.00	0.00	84.17	15.83	0.00	0.00	100.00	326
0.00	0.00	89.96	10.04	0.00	0.00	100.00	326
0.00	0.00	55.33	44.67	0.00	0.00	100.00	326
0.00	0.23	88.81	10.96	0.00	0.00	100.00	326
0.00	0.00	100.00	0.00	0.00	0.00	100.00	326
0.00	0.47	20.05	79.47	0.00	0.00	100.00	326
0.00	0.02	81.63	18.35	0.00	0.00	100.00	326
0.00	0.00	71.01	5.39	0.00	0.00	100.00	326
0.00	0.00	96.01	3.99	0.00	0.00	100.00	326
0.00	0.00	85.57	14.43	0.00	0.00	100.00	326
0.01	0.63	48.09	47.42	0.00	0.28	100.00	326
0.00	0.39	94.91	4.69	0.01	0.00	100.00	326
0.00	0.11	57.02	42.87	0.00	0.00	100.00	326
0.00	0.04	97.29	2.66	0.00	0.01	100.00	326
0.00	0.51	80.29	19.20	0.00	0.00	100.00	326
0.00	0.00	81.96	8.99	9.05	0.00	100.00	326
0.00	0.00	43.10	56.90	0.00	0.00	100.00	326
0.00	0.00	70.03	12.38	0.00	0.00	100.00	326
0.00	0.00	91.93	5.85	2.22	0.00	100.00	326
0.00	1.54	63.12	35.33	0.00	0.01	100.00	326
0.00	0.00	94.00	5.24	0.76	0.00	100.00	326
0.00	0.00	92.83	2.85	4.33	0.00	100.00	326
0.00	2.65	91.57	5.66	0.00	0.12	100.00	326
0.00	0.00	49.09	50.81	0.00	0.10	100.00	326
0.00	0.00	56.17	43.81	0.00	0.02	100.00	326
0.00	0.06	94.68	4.81	0.44	0.01	100.00	326
0.00	0.00	96.97	0.68	2.30	0.04	100.00	326
0.00	0.80	73.44	25.76	0.00	0.00	100.00	326
0.00	0.00	62.65	37.35	0.00	0.00	100.00	326
0.00	0.00	72.43	27.56	0.00	0.01	100.00	326
0.00	0.28	67.14	32.59	0.00	0.00	100.00	326
0.00	1.77	39.92	58.31	0.00	0.00	100.00	326
1.02	8.27	39.96	40.73	0.00	10.03	100.00	326
0.00	0.00	85.72	14.28	0.00	0.01	100.00	326
0.00	2.04	81.56	16.40	0.00	0.00	100.00	326
0.00	1.86	77.12	20.85	0.00	0.17	100.00	326

Table C2. Land Cover (Percentage) for Subwatersheds of Potentially Significant, Publicly-Owned Lakes—Continued

Lake ID	Primary Name	WRDS #	HUC	Area (sq m)	Perimeter (m)	Percent Unknown
326	Raystown Lk	14134	2050303	35,500,000	29,600	0.00
326	Raystown Lk	15303	2050303	13,800,000	23,700	5.08
326	Raystown Lk	14412	2050303	3,710,000	8,640	0.00
326	Raystown Lk	15186	2050303	1,780,000	6,380	0.00
326	Raystown Lk	13349	2050303	81,800,000	83,400	3.12
326	Raystown Lk	14292	2050303	28,000,000	32,500	0.00
326	Raystown Lk	15054	2050303	12,100,000	17,600	0.00
326	Raystown Lk	15260	2050303	8,970,000	18,800	0.00
326	Raystown Lk	15016	2050303	47,700,000	41,400	0.00
326	Raystown Lk	14309	2050303	6,110,000	11,300	0.00
326	Raystown Lk	14342	2050303	12,900,000	20,100	0.00
326	Raystown Lk	14311	2050303	8,260,000	14,700	0.00
326	Raystown Lk	14462	2050303	94,500,000	62,500	0.00
326	Raystown Lk	15116	2050303	23,500,000	37,400	0.00
326	Raystown Lk	14363	2050303	29,400,000	46,300	0.00
326	Raystown Lk	14414	2050303	7,120,000	12,200	0.00
326	Raystown Lk	14178	2050303	58,400,000	69,500	0.00
326	Raystown Lk	15305	2050303	3,250,000	8,740	0.00
326	Raystown Lk	15140	2050303	3,840,000	10,700	0.00
326	Raystown Lk	15121	2050303	13,900,000	18,400	0.00
326	Raystown Lk	15315	2050303	4,480,000	11,400	0.00
326	Raystown Lk	15308	2050303	19,700,000	24,000	0.00
326	Raystown Lk	14303	2050303	3,290,000	14,500	0.00
326	Raystown Lk	14367	2050303	1,150,000	6,000	0.00
326	Raystown Lk	14185	2050303	60,100,000	45,900	0.00
326	Raystown Lk	14482	2050303	14,000,000	19,200	0.00
326	Raystown Lk	14308	2050303	1,220,000	6,080	0.00
326	Raystown Lk	14305	2050303	3,240,000	8,000	0.00
326	Raystown Lk	14374	2050303	9,420,000	25,600	0.00
326	Raystown Lk	14375	2050303	244,000	2,450	0.00
326	Raystown Lk	15154	2050303	6,980,000	13,700	0.00
326	Raystown Lk	14378	2050303	1,500,000	6,860	0.00
326	Raystown Lk	14293	2050303	3,150,000	10,300	0.00
326	Raystown Lk	14296	2050303	2,790,000	7,050	0.00
326	Raystown Lk	14326	2050303	2,050,000	7,890	0.00
326	Raystown Lk	15166	2050303	15,500,000	19,500	0.00
326	Raystown Lk	14396	2050303	2,560,000	8,330	0.00
326	Raystown Lk	14329	2050303	1,590,000	6,630	0.00
326	Raystown Lk	14385	2050303	1,810,000	7,280	0.00
326	Raystown Lk	14331	2050303	1,440,000	7,090	0.00
326	Raystown Lk	14245	2050303	11,800,000	23,500	0.00
326	Raystown Lk	14334	2050303	2,370,000	7,960	0.00
326	Raystown Lk	14335	2050303	2,190,000	7,870	0.00
326	Raystown Lk	14245	2050303	14,000,000	19,000	0.00
326	Raystown Lk	14337	2050303	1,500,000	6,430	0.00
326	Raystown Lk	14241	2050303	8,880,000	20,600	0.00
326	Raystown Lk	14339	2050303	2,330,000	6,610	0.00
338	Greenwood Lk	15411	2050302	15,500,000	26,000	0.00
338	Greenwood Lk	99005	2050302	1,030,000	5,100	0.00
340	Shaver Creek Dm	15575	2050302	19,400,000	27,800	0.00

Percent Developed High Intsy	Percent Developed Low Intsy	Percent Herbaceous	Percent Woody	Percent Exposed	Percent Water	Percent Total	Lake ID
0.00	3.22	69.78	26.37	0.63	0.00	100.00	326
0.00	0.47	91.14	3.31	0.00	0.00	100.00	326
0.00	12.83	65.00	22.17	0.00	0.00	100.00	326
0.00	1.27	95.71	2.92	0.00	0.11	100.00	326
0.00	1.87	70.71	24.24	0.00	0.05	100.00	326
0.00	0.57	79.15	20.27	0.00	0.00	100.00	326
0.00	3.66	73.20	23.13	0.00	0.01	100.00	326
0.00	0.46	66.26	33.28	0.00	0.00	100.00	326
0.02	1.53	81.93	16.51	0.00	0.00	100.00	326
0.00	0.34	99.64	0.02	0.00	0.00	100.00	326
0.00	1.06	57.36	41.58	0.00	0.00	100.00	326
0.00	0.00	99.83	0.17	0.00	0.00	100.00	326
0.00	0.12	64.65	34.58	0.57	0.08	100.00	326
0.00	0.80	73.47	25.73	0.00	0.00	100.00	326
0.00	0.67	79.53	19.73	0.00	0.07	100.00	326
0.00	0.98	83.00	16.00	0.00	0.01	100.00	326
0.00	1.68	66.38	31.04	0.27	0.63	100.00	326
0.00	0.00	97.91	2.09	0.00	0.00	100.00	326
0.00	0.02	39.58	60.40	0.00	0.00	100.00	326
0.00	0.00	79.72	20.28	0.00	0.00	100.00	326
0.00	8.92	81.00	10.08	0.00	0.00	100.00	326
0.00	1.01	86.86	12.01	0.13	0.00	100.00	326
0.00	0.00	86.52	13.48	0.00	0.00	100.00	326
0.00	0.00	52.66	47.34	0.00	0.00	100.00	326
0.00	0.00	55.26	44.70	0.00	0.04	100.00	326
0.00	0.00	54.35	45.18	0.00	0.47	100.00	326
0.00	0.00	98.51	1.49	0.00	0.00	100.00	326
0.00	0.00	79.55	20.45	0.00	0.00	100.00	326
0.00	0.00	83.63	16.37	0.00	0.00	100.00	326
0.00	0.00	99.24	0.76	0.00	0.00	100.00	326
0.00	0.19	68.70	31.11	0.00	0.00	100.00	326
0.00	0.00	94.39	5.61	0.00	0.00	100.00	326
0.00	0.00	77.23	22.77	0.00	0.00	100.00	326
0.00	0.00	100.00	0.00	0.00	0.00	100.00	326
0.00	0.67	78.75	20.58	0.00	0.00	100.00	326
0.00	0.00	84.82	15.18	0.00	0.00	100.00	326
0.00	0.00	99.56	0.44	0.00	0.00	100.00	326
0.00	0.00	99.22	0.78	0.00	0.00	100.00	326
0.00	0.00	52.80	47.20	0.00	0.00	100.00	326
0.00	1.96	87.01	11.04	0.00	0.00	100.00	326
0.00	0.00	44 90	55.10	0.00	0.00	100.00	326
0.00	0.40	94.49	5.12	0.00	0.00	100.00	326
0.00	2.48	86.17	11.36	0.00	0.00	100.00	326
0.00	0.00	56.96	43.04	0.00	0.00	100.00	326
0.00	3.29	84.03	12.68	0.00	0.00	100.00	326
0.00	0.00	60.65	39.35	0.00	0.00	100.00	326
0.00	8.36	66.04	25.60	0.00	0.00	100.00	326
0.00	0.00	98.70	1.08	0.00	0.23	100.00	338
0.00	0.00	100.00	0.00	0.00	0.00	100.00	338
0.00	0.00	95.50	3.03	0.00	1.47	100.00	340

Table C2. Land Cover (Percentage) for Subwatersheds of Potentially Significant, Publicly-Owned Lakes—Continued

Lake ID	Primary Name	WRDS #	HUC	Area (sq m)	Perimeter (m)	Percent Unknown
341	Whipple Lk	15451	2050302	21,200,000	28,300	0.00
341	Whipple Lk	15468	2050302	8,420,000	14,100	0.00
363	Pa. G&W Stark Res	28387	2050107	2,640,000	7,390	0.00
367	Pa. G&W Elmhurst Res	28464	2050107	2,630,000	9,090	0.00
367	Pa. G&W Elmhurst Res	28467	2050107	6,600,000	13,300	0.86
367	Pa. G&W Elmhurst Res	28452	2050107	26,300,000	38,400	0.00
367	Pa. G&W Elmhurst Res	28481	2050107	5,840,000	10,900	0.00
367	Pa. G&W Elmhurst Res	28476	2050107	8,390,000	13,700	0.00
367	Pa. G&W Elmhurst Res	28475	2050107	5,700,000	12,100	0.00
370	Pa. G&W Curtis Res	28464	2050107	5,720,000	10,000	12.69
380	Pa. G&W Dunmore Res #1	28453	2050107	7,200,000	12,200	0.00
399	Pa. G&W Summit Lk	28529	2050107	2,970,000	8,860	0.00
404	Ford Lk	28676	2050106	2,790,000	7,260	0.00
412	Pa. G&W Chapman Lk	28799	2050106	1,520,000	5,200	0.00
415	Lk Lackawanna	28799	2050106	42,900,000	41,100	0.00
415	Lk Lackawanna	28799	2050106	27,800,000	36,900	0.00
415	Lk Lackawanna	28799	2050106	31,400,000	32,000	0.00
415	Lk Lackawanna	28861	2050106	16,000,000	22,400	0.00
419	Pa. G&W Carbondale Res #4	28591	2050107	4,240,000	10,100	9.19
423	Merli-Sarnoski Park Lk	28580	2050107	709,000	3,400	0.00
427	Newton Lk	29051	2050106	2,570,000	7,010	0.00
430	Octoraro Lk	7133	2050306	15,100,000	19,200	47.24
430	Octoraro Lk	7150	2050306	7,050,000	12,700	0.00
430	Octoraro Lk	7143	2050306	12,700,000	15,500	0.00
430	Octoraro Lk	7144	2050306	10,700,000	19,900	0.00
430	Octoraro Lk	7066	2050306	12,000,000	20,200	0.00
430	Octoraro Lk	7131	2050306	9,620,000	19,300	73.26
430	Octoraro Lk	7064	2050306	13,600,000	19,800	0.00
430	Octoraro Lk	7144	2050306	2,000,000	8,060	0.00
430	Octoraro Lk	7144	2050306	172,000	2,360	0.00
430	Octoraro Lk	7141	2050306	14,300,000	21,700	0.00
430	Octoraro Lk	7139	2050306	2,600,000	7,300	100.00
430	Octoraro Lk	7070	2050306	169,000	2,200	0.00
430	Octoraro Lk	7070	2050306	10,700,000	15,800	9.85
430	Octoraro Lk	7111	2050306	23,400,000	24,200	56.19
430	Octoraro Lk	7056	2050306	15,600,000	18,700	0.00
430	Octoraro Lk	7127	2050306	4,640,000	10,400	0.00
430	Octoraro Lk	7033	2050306	11,100,000	17,500	0.00
430	Octoraro Lk	7108	2050306	9,270,000	17,100	0.00
430	Octoraro Lk	7070	2050306	21,600,000	35,800	0.00
430	Octoraro Lk	7125	2050306	2,970,000	8,670	0.00
430	Octoraro Lk	7104	2050306	10,800,000	17,900	0.00
430	Octoraro Lk	7056	2050306	4,640,000	10,000	0.00
430	Octoraro Lk	7086	2050306	31,200,000	35,800	0.00
430	Octoraro Lk	7081	2050306	16,400,000	20,900	0.00
430	Octoraro Lk	7050	2050306	15,100,000	19,700	0.00
430	Octoraro Lk	7033	2050306	21,400,000	27,500	0.00
430	Octoraro Lk	7095	2050306	6,780,000	11,600	0.00
430	Octoraro Lk	7045	2050306	3,220,000	10,400	0.00
430	Octoraro Lk	7033	2050306	15,900,000	25,800	0.00

Percent Developed High Intsy	Percent Developed Low Intsy	Percent Herbaceous	Percent Woody	Percent Exposed	Percent Water	Percent Total	Lake ID
0.00	0.00	94.05	5.55	0.00	0.39	100.00	341
0.00	0.00	99.04	0.96	0.00	0.00	100.00	341
0.00	5.08	85.95	7.21	0.40	1.35	100.00	363
0.00	0.74	64.06	35.20	0.00	0.00	100.00	367
0.00	0.46	68.32	29.98	0.00	0.38	100.00	367
0.18	7.00	74.37	14.97	0.00	3.49	100.00	367
0.03	4.24	70.10	25.63	0.00	0.00	100.00	367
0.66	6.57	66.02	26.31	0.16	0.27	100.00	367
0.66	3.77	78.46	16.19	0.00	0.92	100.00	367
0.00	0.96	66.94	13.79	0.00	5.62	100.00	370
0.00	0.32	96.67	1.89	0.00	1.12	100.00	380
0.50	2.82	38.30	51.13	0.00	7.26	100.00	399
0.00	0.02	59.78	30.00	0.58	9.61	100.00	404
0.00	13.59	29.40	27.10	0.00	29.90	100.00	412
0.00	2.89	55.29	40.30	0.02	1.50	100.00	415
0.00	1.44	53.74	39.42	0.00	5.40	100.00	415
0.00	2.71	55.87	40.92	0.00	0.50	100.00	415
0.00	6.05	49.18	44.05	0.00	0.71	100.00	415
0.00	4.34	77.95	1.05	0.00	7.47	100.00	419
0.00	2.39	81.17	0.44	0.00	16.00	100.00	423
0.00	6.14	45.34	23.14	0.00	25.38	100.00	427
0.12	3.56	12.09	36.99	0.00	0.00	100.00	430
0.29	9.49	28.04	62.18	0.00	0.00	100.00	430
0.10	6.43	15.60	77.86	0.00	0.00	100.00	430
0.25	2.40	14.02	83.33	0.00	0.00	100.00	430
0.00	0.96	7.43	91.61	0.00	0.00	100.00	430
0.00	0.84	9.14	16.75	0.00	0.00	100.00	430
0.00	0.62	6.97	92.37	0.00	0.05	100.00	430
0.00	15.05	48.30	36.65	0.00	0.00	100.00	430
0.00	15.22	78.62	6.16	0.00	0.00	100.00	430
0.00	2.66	16.69	80.65	0.00	0.00	100.00	430
0.00	0.00	0.00	0.00	0.00	0.00	100.00	430
0.00	8.12	90.41	1.48	0.00	0.00	100.00	430
0.00	0.14	47.10	42.91	0.00	0.00	100.00	430
0.00	0.06	11.46	32.29	0.00	0.00	100.00	430
0.00	2.13	22.94	74.93	0.00	0.00	100.00	430
0.00	0.46	39.10	60.45	0.00	0.00	100.00	430
0.00	0.19	33.60	66.16	0.00	0.06	100.00	430
0.00	0.18	22.53	77.30	0.00	0.00	100.00	430
0.00	0.61	27.06	72.32	0.00	0.00	100.00	430
0.00	0.00	33.94	66.06	0.00	0.00	100.00	430
0.00	0.00	15.57	84.43	0.00	0.00	100.00	430
0.00	0.42	30.11	69.48	0.00	0.00	100.00	430
0.09	1.19	25.79	72.81	0.00	0.12	100.00	430
0.00	0.75	13.74	85.50	0.00	0.00	100.00	430
0.00	0.77	17.44	81.79	0.00	0.00	100.00	430
0.00	0.66	29.39	69.95	0.00	0.00	100.00	430
0.00	0.51	19.99	79.50	0.00	0.00	100.00	430
0.00	1.01	26.72	72.27	0.00	0.00	100.00	430
0.00	0.24	25.98	67.75	0.00	6.03	100.00	430

Table C2. Land Cover (Percentage) for Subwatersheds of Potentially Significant, Publicly-Owned Lakes—Continued

Lake ID	Primary Name	WRDS #	HUC	Area (sq m)	Perimeter (m)	Percent Unknown
430	Octoraro Lk	7034	2050306	6,150,000	12,800	0.00
430	Octoraro Lk	7070	2050306	8,980,000	17,800	0.00
430	Octoraro Lk	7033	2050306	5,700,000	12,300	0.00
430	Octoraro Lk	7071	2050306	13,500,000	16,600	0.00
430	Octoraro Lk	6947	2050306	299,000	2,290	0.00
435	Muddy Run Rec Res	7400	2050306	12,100,000	15,200	0.00
460	Speedwell Forge Lk	7664	2050306	52,900,000	50,600	5.46
460	Speedwell Forge Lk	7676	2050306	5,590,000	11,700	0.00
460	Speedwell Forge Lk	7675	2050306	2,450,000	7,520	0.00
462	Middle Creek Dm	7689	2050306	19,600,000	22,500	0.07
466	Mt Gretna Lk	9217	2050305	4,050,000	9,590	0.00
469	Rexmont #2	7664	2050306	1,500,000	5,140	0.00
471	Rexmont #1	7664	2050306	1,560,000	7,100	0.00
477	Stoevers Dm	9734	2050305	2,890,000	7,190	0.00
479	Ebenezer Union Canal Dm	9361	2050305	1,390,000	7,020	0.00
480	Memorial Lk	9361	2050305	5,320,000	9,560	0.00
481	Marquette Lk	9361	2050305	14,100,000	16,800	0.00
481	Marquette Lk	9361	2050305	804,000	4,180	0.00
491	Lk Irena	28109	2050107	3,550,000	7,940	0.00
495	Lk Francis	28102	2050107	5,600,000	10,600	0.00
498	Lily Lk	28258	2050107	6,180,000	13,000	0.00
524	Moon Lk	28300	2050107	1,300,000	5,340	0.00
526	Sylvan Lk	28300	2050107	4,040,000	9,780	0.00
527	Lk Silkworth	28300	2050107	1,340,000	4,770	0.00
543	Harris Pd	28311	2050107	1,270,000	4,490	0.00
548	Frances Slocum Lk	28361	2050107	7,230,000	12,600	0.00
548	Frances Slocum Lk	28361	2050107	8,410,000	16,700	0.00
549	Lk Jean	27845	2050107	7,750,000	14,200	0.00
550	Mountain Spring Lk	0	2050106	4,300,000	9,700	0.00
550	Mountain Spring Lk	28779	2050106	4,800,000	12,500	0.00
551	Harveys Lk	28317	2050107	10,800,000	18,700	0.00
551	Harveys Lk	28317	2050107	2,800,000	6,940	0.00
551	Harveys Lk	28317	2050107	1,430,000	5,170	0.00
551	Harveys Lk	28317	2050107	2,260,000	7,250	0.00
580	Little Pine Creek Dm	21260	2050205	6,900,000	14,800	0.00
580	Little Pine Creek Dm	21263	2050205	4,810,000	11,600	0.00
580	Little Pine Creek Dm	21262	2050205	5,060,000	12,200	0.00
580	Little Pine Creek Dm	21257	2050205	12,500,000	17,000	0.00
580	Little Pine Creek Dm	21261	2050205	4,070,000	10,100	0.00
580	Little Pine Creek Dm	21249	2050205	1,060,000	4,300	0.00
580	Little Pine Creek Dm	21270	2050205	3,470,000	8,780	0.00
580	Little Pine Creek Dm	21249	2050205	6,090,000	17,100	0.00
580	Little Pine Creek Dm	21217	2050205	6,050,000	12,700	0.00
580	Little Pine Creek Dm	21254	2050205	5,190,000	16,000	0.00
580	Little Pine Creek Dm	21251	2050205	2,270,000	6,340	0.00
580	Little Pine Creek Dm	21256	2050205	2,170,000	6,630	0.00
580	Little Pine Creek Dm	21255	2050205	4,230,000	10,400	0.00
580	Little Pine Creek Dm	0	2050205	1,190,000	4,920	0.00
580	Little Pine Creek Dm	21252	2050205	4,730,000	11,200	0.00
580	Little Pine Creek Dm	21265	2050205	1,490,000	6,230	0.00

Percent Developed High Intsy	Percent Developed Low Intsy	Percent Herbaceous	Percent Woody	Percent Exposed	Percent Water	Percent Total	Lake ID
0.00	0.65	21.45	77.90	0.00	0.00	100.00	430
0.00	1.68	42.93	40.55	0.00	14.84	100.00	430
0.00	0.52	20.17	79.31	0.00	0.00	100.00	430
0.00	2.01	19.25	78.71	0.00	0.02	100.00	430
0.00	0.00	48.44	0.00	0.00	51.56	100.00	430
0.00	1.31	42.44	52.34	0.00	3.91	100.00	435
0.04	3.13	36.07	54.55	0.01	0.73	100.00	460
0.00	1.33	97.05	1.62	0.00	0.00	100.00	460
0.00	0.00	98.98	1.02	0.00	0.00	100.00	460
0.00	0.06	46.12	45.96	0.00	7.80	100.00	462
0.00	0.00	95.52	3.48	0.00	1.00	100.00	466
0.00	0.00	98.62	0.00	0.00	1.38	100.00	469
0.00	0.04	97.83	0.84	0.00	1.29	100.00	471
1.10	19.34	5.28	72.44	0.00	1.84	100.00	477
0.00	27.75	4.66	67.59	0.00	0.00	100.00	479
0.27	7.15	50.61	36.03	0.00	5.93	100.00	480
0.00	0.41	89.03	10.56	0.00	0.00	100.00	481
0.00	0.85	91.92	0.00	0.00	7.23	100.00	481
7.58	14.03	59.86	15.35	1.90	1.29	100.00	491
0.00	0.60	83.39	15.35	0.00	0.66	100.00	495
0.00	0.18	84.38	7.02	0.00	8.42	100.00	498
0.00	1.54	71.65	17.78	0.00	9.03	100.00	524
0.00	1.00	57.73	29.45	0.00	11.81	100.00	526
0.00	7.74	61.56	5.73	0.00	24.98	100.00	527
0.00	0.00	73.22	16.77	0.00	10.01	100.00	543
0.22	0.45	56.04	40.96	0.43	1.91	100.00	548
0.00	1.91	60.11	30.61	0.24	7.12	100.00	548
0.32	1.13	60.62	21.51	0.00	16.43	100.00	549
0.00	0.00	99.69	0.31	0.00	0.00	100.00	550
0.00	0.00	96.73	0.05	0.00	3.21	100.00	550
0.00	14.86	58.74	4.13	0.00	22.26	100.00	551
0.00	2.63	80.58	16.79	0.00	0.00	100.00	551
0.00	5.27	83.98	7.42	0.00	3.34	100.00	551
0.00	6.63	86.71	6.66	0.00	0.00	100.00	551
0.00	0.01	72.04	18.71	9.24	0.00	100.00	580
0.00	0.00	76.05	22.75	1.19	0.00	100.00	580
0.00	0.00	82.79	17.21	0.00	0.00	100.00	580
0.00	0.00	93.20	6.80	0.00	0.00	100.00	580
0.00	0.00	82.24	17.66	0.09	0.00	100.00	580
0.00	0.00	63.57	34.08	2.35	0.00	100.00	580
0.00	0.00	86.04	13.96	0.00	0.00	100.00	580
0.00	0.05	96.52	3.43	0.00	0.00	100.00	580
0.00	0.42	94.02	2.68	0.00	2.88	100.00	580
0.00	0.00	92.56	7.44	0.00	0.00	100.00	580
0.00	0.00	84.69	15.31	0.00	0.00	100.00	580
0.00	0.00	89.44	10.56	0.00	0.00	100.00	580
0.00	0.00	79.54	20.46	0.00	0.00	100.00	580
0.00	0.00	100.00	0.00	0.00	0.00	100.00	580
0.00	0.00	94.35	5.65	0.00	0.00	100.00	580
0.00	0.00	96.35	3.57	0.00	0.08	100.00	580

Table C2. Land Cover (Percentage) for Subwatersheds of Potentially Significant, Publicly-Owned Lakes—Continued

Lake ID	Primary Name	WRDS #	HUC	Area (sq m)	Perimeter (m)	Percent Unknown
580	Little Pine Creek Dm	21249	2050205	631,000	3,740	0.00
580	Little Pine Creek Dm	21217	2050205	8,970,000	26,500	0.00
580	Little Pine Creek Dm	21268	2050205	2,880,000	6,770	0.00
580	Little Pine Creek Dm	21246	2050205	2,920,000	7,070	0.00
580	Little Pine Creek Dm	21267	2050205	450,000	3,060	0.00
580	Little Pine Creek Dm	21266	2050205	1,140,000	4,570	0.00
580	Little Pine Creek Dm	21248	2050205	5,180,000	11,400	0.00
580	Little Pine Creek Dm	21244	2050205	1,380,000	5,050	0.00
580	Little Pine Creek Dm	21240	2050205	4,710,000	10,400	0.00
580	Little Pine Creek Dm	21245	2050205	2,170,000	6,500	0.00
580	Little Pine Creek Dm	21243	2050205	2,390,000	7,410	0.00
581	Rose Valley Lk	19836	2050206	8,700,000	14,900	0.00
591	Laurel Creek Res	12462	2050304	14,200,000	20,600	0.00
594	Lk Chillisquaque	18873	2050206	14,300,000	17,900	0.00
600	Zerbe Twp R G C Pd	17639	2050301	5,650,000	10,600	0.00
626	Holman Lk (Little Buffalo Lk)	11466	2050304	27,500,000	36,800	0.00
626	Holman Lk (Little Buffalo Lk)	11484	2050304	7,210,000	15,600	0.00
642	Sweet Arrow Lk	10054	2050305	52,800,000	39,400	0.00
688	Park Place Dm #3	17687	2050301	704,000	3,340	68.73
702	Lofty Messer's Run	27605	2050107	3,330,000	8,260	99.94
718	C F Walker Lk	17889	2050301	33,000,000	32,400	0.00
718	C F Walker Lk	17907	2050301	14,900,000	21,500	0.00
724	Hunters Lk	0	2050206	3,190,000	8,250	0.00
726	Lopez Pd	20416	2050206	1,460,000	5,290	0.00
730	Shumans Lk	19804	2050206	9,460,000	20,000	0.00
730	Shumans Lk	20473	2050206	633,000	4,030	0.00
730	Shumans Lk	20471	2050206	3,860,000	8,990	0.00
731	Sones Pd	20344	2050206	1,220,000	4,920	0.00
734	Bear Wallow Pd	20063	2050206	2,080,000	5,850	0.00
744	Horton Lk Dm	29101	2050106	1,270,000	4,960	0.00
745	Tuscarora Lk	29465	2050106	2,660,000	7,210	0.00
756	Lower Alford Lk	28937	2050106	13,800,000	22,600	0.00
763	Lk Montrose	31820	2050101	2,170,000	7,270	0.00
773	Star Lk Dm	32133	2050101	2,410,000	6,480	0.00
786	Quaker Lk	31811	2050101	3,670,000	10,600	0.00
795	Lk Nessmuk	21923	2050205	4,360,000	10,800	0.00
798	Hamilton Lk	21915	2050205	21,800,000	24,600	0.00
803	Hills Creek Lk	31209	2050104	9,380,000	15,000	0.00
809	Beechwood Lk	0	2050104	5,950,000	10,900	0.00
809	Beechwood Lk	0	2050104	2,890,000	7,930	0.00
810	Hammond Lk	31189	2050104	32,400,000	40,300	0.00
810	Hammond Lk	31197	2050104	7,650,000	13,000	0.00
810	Hammond Lk	31202	2050104	8,940,000	18,000	0.00
810	Hammond Lk	31203	2050104	2,550,000	6,890	0.00
813	Cowanesque Res	31003	2050104	4,950,000	11,000	0.00
813	Cowanesque Res	31006	2050104	3,380,000	8,890	0.00
813	Cowanesque Res	30995	2050104	8,670,000	19,700	0.00
813	Cowanesque Res	30995	2050104	7,430,000	20,400	0.00
813	Cowanesque Res	30996	2050104	10,200,000	15,200	0.00
813	Cowanesque Res	31000	2050104	8,340,000	15,800	0.00

Percent Developed High Intsy	Percent Developed Low Intsy	Percent Herbaceous	Percent Woody	Percent Exposed	Percent Water	Percent Total	Lake ID
0.00	1.38	81.48	17.14	0.00	0.00	100.00	580
0.00	0.62	75.76	17.00	0.00	6.62	100.00	580
0.00	0.00	100.00	0.00	0.00	0.00	100.00	580
0.00	0.00	97.14	2.86	0.00	0.00	100.00	580
0.00	0.00	94.04	5.96	0.00	0.00	100.00	580
0.00	0.00	99.17	0.83	0.00	0.00	100.00	580
0.00	0.00	93.99	5.92	0.00	0.08	100.00	580
0.00	0.00	99.77	0.23	0.00	0.00	100.00	580
0.00	0.24	99.39	0.37	0.00	0.00	100.00	580
0.00	0.00	94.70	5.24	0.00	0.06	100.00	580
0.00	0.00	99.97	0.00	0.00	0.03	100.00	580
0.00	0.00	56.07	24.65	0.00	19.28	100.00	581
0.00	1.78	95.71	0.51	0.00	1.99	100.00	591
0.00	0.59	33.55	61.07	0.04	4.76	100.00	594
0.31	7.94	88.99	2.76	0.00	0.00	100.00	600
0.00	0.00	59.47	38.98	0.00	1.54	100.00	626
0.00	0.00	47.86	52.14	0.00	0.00	100.00	626
0.00	1.67	48.08	49.71	0.00	0.53	100.00	642
0.00	0.00	31.27	0.00	0.00	0.00	100.00	688
0.00	0.00	0.06	0.00	0.00	0.00	100.00	702
0.00	0.03	49.17	47.85	0.00	2.96	100.00	718
0.00	0.00	76.18	23.09	0.00	0.73	100.00	718
0.00	0.55	82.64	2.41	0.00	14.40	100.00	724
0.00	0.00	69.43	26.66	0.00	3.91	100.00	726
0.00	0.00	81.91	16.41	0.00	1.68	100.00	730
0.00	0.00	88.17	11.83	0.00	0.00	100.00	730
0.00	0.00	90.26	9.74	0.00	0.00	100.00	730
0.00	0.00	84.86	10.86	0.00	4.28	100.00	731
0.00	0.00	80.96	14.78	0.00	4.26	100.00	734
0.00	0.00	53.47	33.89	0.00	12.64	100.00	744
0.00	0.00	62.86	28.91	0.00	8.23	100.00	745
0.00	0.61	71.60	25.31	0.00	2.48	100.00	756
0.00	25.76	34.47	29.86	0.00	9.91	100.00	763
0.00	1.69	52.83	33.22	0.00	12.26	100.00	773
0.00	3.96	49.66	31.04	0.00	15.34	100.00	786
0.00	2.50	40.39	51.65	0.00	5.45	100.00	795
0.00	0.99	57.97	39.95	0.00	1.08	100.00	798
0.00	1.37	68.07	23.35	0.00	7.20	100.00	803
0.00	3.32	52.30	38.85	0.00	5.53	100.00	809
0.00	2.87	42.72	54.40	0.00	0.00	100.00	809
0.00	3.63	70.40	18.26	0.00	7.71	100.00	810
0.00	1.45	92.67	1.94	0.00	3.94	100.00	810
0.00	0.18	98.93	0.67	0.00	0.22	100.00	810
0.00	0.00	100.00	0.00	0.00	0.00	100.00	810
0.00	1.64	74.67	23.63	0.00	0.06	100.00	813
0.00	1.55	64.85	33.60	0.00	0.00	100.00	813
0.00	3.15	58.28	37.80	0.00	0.77	100.00	813
0.00	7.34	37.50	38.04	0.00	17.12	100.00	813
0.00	2.37	65.94	28.08	0.00	3.61	100.00	813
0.00	0.94	86.09	12.97	0.00	0.01	100.00	813

Table C2. Land Cover (Percentage) for Subwatersheds of Potentially Significant, Publicly-Owned Lakes—Continued

Lake ID	Primary Name	WRDS #	HUC	Area (sq m)	Perimeter (m)	Percent Unknown
813	Cowanesque Res	31001	2050104	5,160,000	10,800	0.00
815	Eldridge Pond Dam	0	2050104	730,000	3,190	0.00
833	Lk Winola	28681	2050106	4,190,000	9,350	0.00
843	Lk Carey	28797	2050106	6,210,000	14,000	0.00
843	Lk Carey	28788	2050106	6,770,000	13,500	0.00
845	Stevens Lk Dam	28788	2050106	4,080,000	8,250	0.00
849	Sheppard Myers Res	8813	2050306	14,900,000	17,800	0.00
852	Long Arm Res	8912	2050306	14,400,000	19,700	0.00
860	Lk Marburg	8233	2050306	25,800,000	38,400	0.00
860	Lk Marburg	8235	2050306	25,600,000	26,500	0.00
860	Lk Marburg	8250	2050306	8,710,000	14,800	0.00
869	Lk Williams	8097	2050306	3,860,000	10,000	0.00
872	Lk Redman	8097	2050306	47,900,000	59,200	0.00
872	Lk Redman	8110	2050306	8,040,000	13,100	0.00
872	Lk Redman	8115	2050306	14,100,000	20,500	0.00
872	Lk Redman	8097	2050306	8,530,000	13,700	0.00
872	Lk Redman	8129	2050306	8,340,000	14,700	0.00
872	Lk Redman	8097	2050306	13,500,000	17,600	0.00
872	Lk Redman	8142	2050306	2,000,000	6,360	0.00
890	Conewago Lk	8545	2050306	9,440,000	15,200	0.00
890	Conewago Lk	8519	2050306	6,640,000	12,700	0.00
890	Conewago Lk	8519	2050306	3,150,000	8,070	0.00
890	Conewago Lk	8519	2050306	9,270,000	14,100	0.00
890	Conewago Lk	8519	2050306	3,570,000	8,300	0.00
890	Conewago Lk	8519	2050306	8,080,000	14,000	0.00
890	Conewago Lk	8519	2050306	2,610,000	7,910	0.00
890	Conewago Lk	8519	2050306	583,000	4,010	0.00
890	Conewago Lk	8519	2050306	2,160,000	7,350	0.00
901	Stacey Pd	30901	2050105	203,000	1,880	0.00
905	Wrisleys Lk	30667	2050106	665,000	3,480	0.00
906	Unnamed	30718	2050106	781,000	4,060	0.00
910	Brownings Pd	29499	2050106	1,020,000	4,410	0.00
914	Chillson Pd	29624	2050106	947,000	4,420	0.00
915	Rockwell Pd	30079	2050106	1,440,000	5,480	0.00
924	Haig Pd	30063	2050106	1,900,000	6,290	0.00
927	Ackleys Pd	29994	2050106	7,050,000	12,200	0.00
930	Cash Pd	30337	2050106	828,000	3,790	0.00
931	Unnamed (Allen's Lk)	30367	2050106	615,000	3,000	0.00
934	Balsam Pd	30821	2050106	1,620,000	5,230	0.00
938	Unnamed	30806	2050106	1,930,000	5,720	0.00
946	Wildwood Lk	10139	2050305	20,400,000	20,900	0.00
974	Nuangola Lk	28276	2050107	3,450,000	8,600	0.00
979	Splashdam Pd	29250	2050106	17,300,000	22,400	0.00
979	Splashdam Pd	29338	2050106	4,240,000	9,270	0.00
980	Lk John	29250	2050106	3,310,000	7,920	0.00
984	Pine Marsh	20456	2050206	3,250,000	7,860	0.00
998	Stillwater Lk	28618	2050107	37,800,000	42,400	0.00
998	Stillwater Lk	28611	2050107	26,600,000	38,300	0.00
998	Stillwater Lk	28612	2050107	13,800,000	26,000	0.00

Percent Developed High Intsy	Percent Developed Low Intsy	Percent Herbaceous	Percent Woody	Percent Exposed	Percent Water	Percent Total	Lake ID
0.00	0.48	81.76	17.75	0.00	0.00	100.00	813
0.00	1.37	56.63	37.72	0.00	4.28	100.00	815
0.00	10.13	40.56	30.39	0.00	18.93	100.00	833
0.00	0.00	35.68	63.61	0.00	0.70	100.00	843
0.00	2.62	65.45	13.24	0.00	18.69	100.00	843
0.00	0.00	37.00	54.93	0.00	8.07	100.00	845
0.00	2.01	57.67	38.63	0.00	1.69	100.00	849
0.00	0.05	20.23	72.31	0.00	7.41	100.00	852
0.00	1.09	29.10	55.49	0.00	14.32	100.00	860
0.00	1.17	41.63	51.60	0.00	5.60	100.00	860
0.00	2.02	12.18	85.40	0.00	0.39	100.00	860
0.00	14.72	41.83	19.82	0.00	23.62	100.00	869
0.03	4.00	36.02	57.55	0.00	2.41	100.00	872
0.02	20.05	19.43	60.45	0.00	0.05	100.00	872
0.09	11.39	25.48	63.04	0.00	0.00	100.00	872
0.00	1.80	23.99	74.21	0.00	0.00	100.00	872
0.00	1.18	21.97	76.84	0.00	0.00	100.00	872
0.00	0.00	30.56	68.54	0.90	0.00	100.00	872
0.00	0.00	40.52	59.48	0.00	0.00	100.00	872
0.00	0.00	90.76	9.24	0.00	0.00	100.00	890
0.00	0.00	72.97	27.03	0.00	0.00	100.00	890
0.00	2.54	59.67	37.79	0.00	0.00	100.00	890
0.00	1.61	69.12	28.61	0.00	0.67	100.00	890
0.00	1.45	71.11	27.44	0.00	0.00	100.00	890
0.00	3.06	65.07	12.24	0.00	19.63	100.00	890
0.00	1.42	54.72	43.87	0.00	0.00	100.00	890
0.00	1.07	92.71	6.22	0.00	0.00	100.00	890
0.00	6.10	64.64	25.41	0.00	3.85	100.00	890
0.00	0.00	74.77	3.69	0.00	21.54	100.00	901
0.00	0.00	82.71	7.99	0.00	9.30	100.00	905
0.00	0.00	89.17	4.25	0.00	6.58	100.00	906
0.00	0.00	10.26	78.80	0.00	10.94	100.00	910
0.00	0.00	31.33	60.62	1.32	6.73	100.00	914
0.00	0.00	57.77	34.07	0.95	7.20	100.00	915
0.00	0.00	39.06	53.14	0.00	7.80	100.00	924
0.00	0.00	55.06	43.91	0.00	1.03	100.00	927
0.00	0.00	78.64	16.36	0.00	5.00	100.00	930
0.00	0.00	69.28	10.89	0.00	19.84	100.00	931
0.00	0.00	34.57	57.39	0.00	8.04	100.00	934
0.00	1.53	63.86	26.20	0.00	8.41	100.00	938
4.40	24.41	40.61	30.57	0.00	0.00	100.00	946
0.00	5.67	76.01	7.97	0.00	10.35	100.00	974
0.18	1.57	78.56	18.45	0.00	1.23	100.00	979
0.00	0.00	91.55	6.24	0.00	2.21	100.00	979
0.00	0.06	84.80	2.93	0.00	12.21	100.00	980
0.00	0.00	97.33	2.67	0.00	0.00	100.00	984
0.00	0.63	66.04	31.52	0.00	1.81	100.00	998
0.00	1.25	65.06	30.71	0.00	2.98	100.00	998
0.00	0.53	63.22	30.61	0.00	5.65	100.00	998

Table C2. Land Cover (Percentage) for Subwatersheds of Potentially Significant, Publicly-Owned Lakes—Continued

Lake ID	Primary Name	WRDS #	HUC	Area (sq m)	Perimeter (m)	Percent Unknown
998	Stillwater Lk	28618	2050107	3,850,000	9,950	0.00
998	Stillwater Lk	28374	2050107	5,810,000	11,600	0.00
999	Unnamed (Lk Erie)	28374	2050107	1,920,000	5,860	0.00
1011	Polk Pd	29105	2050106	854,000	4,080	0.00
1022	Unnamed (Cozy Lk)	28925	2050106	286,000	2,270	0.00
1048	Dunn Pd	28618	2050107	4,140,000	9,910	0.00
1049	Unnamed (Lk Larue)	29360	2050106	1,610,000	5,330	0.00
1057	Unnamed	32188	2050101	1,630,000	5,580	0.00
1109	Lakeside Pd	28925	2050106	6,120,000	12,700	0.00
1128	Mud Pd	30374	2050106	930,000	4,380	0.00
1130	Black Pd	30206	2050106	2,820,000	6,660	0.00
1131	Unnamed (PA-RC&D-103)	29511	2050106	882,000	4,140	0.00
1150	Kast Pd	20299	2050206	6,160,000	12,700	0.00
1154	Gephart Dm	29276	2050106	488,000	2,770	0.00
1156	Seeleyville Dm	20433	2050206	1,250,000	4,430	0.00
1170	Tyrone Sportsman Club	15858	2050302	1,410,000	5,370	0.00
1171	Halfway Lk	19019	2050206	3,910,000	12,100	0.00
1171	Halfway Lk	19022	2050206	2,120,000	8,380	0.00
1171	Halfway Lk	19004	2050206	7,550,000	15,200	0.00
1171	Halfway Lk	19004	2050206	120,000	2,020	0.00

Percent Developed High Intsy	Percent Developed Low Intsy	Percent Herbaceous	Percent Woody	Percent Exposed	Percent Water	Percent Total	Lake ID
0.00	0.18	80.55	18.08	0.00	1.18	100.00	998
0.00	2.69	64.51	28.22	0.00	4.58	100.00	998
0.00	2.09	80.16	11.61	6.15	0.00	100.00	999
0.00	4.82	55.95	36.30	0.00	2.92	100.00	1011
0.00	0.00	22.83	55.43	0.00	21.74	100.00	1022
0.00	0.32	72.61	15.71	0.00	11.37	100.00	1048
0.00	0.00	38.97	54.27	0.00	6.76	100.00	1049
0.00	0.00	88.84	5.60	0.00	5.56	100.00	1057
0.00	0.00	45.43	48.27	0.00	6.30	100.00	1109
0.00	0.00	71.30	10.82	0.00	17.88	100.00	1128
0.00	0.00	25.42	71.45	0.00	3.13	100.00	1130
0.00	0.00	35.50	54.95	0.00	9.55	100.00	1131
0.00	3.07	52.21	43.64	0.00	1.09	100.00	1150
0.00	0.00	71.21	16.07	0.00	12.72	100.00	1154
0.00	0.00	82.04	15.17	0.00	2.79	100.00	1156
0.00	0.00	88.53	10.89	0.00	0.58	100.00	1170
0.00	0.00	98.00	2.00	0.00	0.00	100.00	1171
0.00	1.15	98.85	0.00	0.00	0.00	100.00	1171
0.00	2.76	96.65	0.59	0.00	0.00	100.00	1171
0.00	5.15	91.24	3.61	0.00	0.00	100.00	1171